SEQUENCE LISTING

<110> Salceda, Susana
Macina, Roberto
Hu, Ping
Recipon, Herve
Karra, Kalpana
Cafferkey, Robert
Sun, Yongming
Liu, Chenghua

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<212> DNA
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<212> DNA
<213> Homo sapien

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<213> Homo sapien

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<213> Homo sapien

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<210> 34
<211> 434
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<213> Homo sapien

<400> 34
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gctgccaata tgctgtcttc acgggacggt aaagaaagta tcacttgggc cgcatctaat 180

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<210> 35
<211> 197
<212> DNA
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<400> 35
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<210> 36
<211> 3414
<212> DNA
<213> Homo sapien

<400> 36
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<210> 37
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<212> DNA
<213> Homo sapien

<220>
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<222> (310)..(611)
<223> a, c, g, or t

<400> 37
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<211> 461
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<213> Homo sapien

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gcattttaaa atatttgtga aaataaaaac ttttgttatt agaaaaaaaa aaaaaaaaaa 360

aaaaaaaaaa ggcttggggg aaacccgggg ccaaaagcgg tgtcccgggg gggaattggt 420

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<210> 39
<211> 633
<212> DNA
<213> Homo sapien

<400> 39
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ttaacctgtt atcaatgtct gagctacata attatctttc tagttggagt ttgttttagg 180

tgtgtaccaa ctgacatttc agttttttctg tttgaagtcc aatgtattag tgactctgtg 240

gctgctctct tcacctgccc cttgtggcct gtctacaatt ctaaatggat tttgaactca 300

atgtcgtcgc ttctggtttc ctgcatatac caatagcatt acctatgact ttttttttcc 360

tgagctattt tcactgagct gagctaatga actaaaactg agttatgttt aatatttgta 420

tcaaatacat aaaaggaata ctgctttttc cttttgtggc tcaaaggtag ctgcatttta 480

aaatatttgt gaaaataaaa acttttgtta ttagaaaaaa aaaaaaaaaa aaaaaaaaaa 540

aaggcttggg ggaaacccgg ggccaaaagc ggtgtcccgg gggggaattg gtttctccgg 600

tccaaattcc ccaaaaaaat cgagaagaaa agt 633

<210> 40
<211> 536
<212> DNA
<213> Homo sapien

<400> 40
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attaggtgaa atcgcaaaaa atatttcttt agaaacataa gcagaatctt aaagtatatt 180

ttcatataac ataatttgat attctgtatt actttcactg ttaaattctc agagtattat 240

ttggaacggc atgaaaaatt aaaatttcga tcatgtttta gagacagtgg agtgtaaatc 300

tgtggctaat tctgttggtc gtttgtatta taaatgtaaa atagtattcc agctattgtg 360

caatatgtaa atagtgtaaa taaacacaag taataaatga agtgtttgtt ataaaaaaaa 420

aaaaaaaaaa aaaaaaaaaa aaaaaaaagg gtgggggaa cccggggcca aaaggggttc 480

cgggggggaa attggtttcc gggccaaaat ttccaacaat ttgggagaaa aaaggt 536

<210> 41
<211> 1206
<212> DNA
<213> Homo sapien

<400> 41
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cgattattag ctttaccaac cctgtgaaca ctgaggttgc agaactgcca ggttaatccc 180

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taataaagca tccacatgta tctgtgatga ttttcattgc tttagcattg cagccatgta 300

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<211> 209
<212> DNA
<213> Homo sapien

<400> 42
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agacaagtcc acacagctgt ggtgcttttc tacgagtctt gttccaactg ctgcataaca 120

atagaatgtt ggaagcagga attagtttta aagtaagact tcagaagtgg aaacaaattt 180

gatatttatt tttataatga tataatagc 209

<210> 43
<211> 706
<212> DNA
<213> Homo sapien

<400> 43
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ggaggttttc cagaaaataa agacactggc tcagctctca aaggatgttc aggatgtcat 180

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<211> 1298
<212> DNA
<213> Homo sapien

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aggagagcag aaccctccaa aacatctgaa aagcaaattt ggggggatga ggaagtgaga 360

tgatgacttg attctccttc taggaagaat agaggaaccc ttctggcaaa atttcaagca 420

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atatatttgt caaaactcct caaatagtat gttaaagacg taagcgtttc actatgtata 1260

aattttactt caaaataata aaaacaaata ctgactct 1298

<210> 45
<211> 531
<212> DNA
<213> Homo sapien

<400> 45
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taatttatga atggcattat tatctttaaa ctattatttt ccaagctcat atatggcctt 180

tttgaaggtt ttccgaatgt tacatttgat tttaagatct aatccaaaat gaaatataga 240

atgtgcttag ttttctataa aaatgccaat gactatctct taaattagtc aaggaaagac 300

aaattaccaa aattcaaact tatttgaatt atttttaagt gattccaggc aataaataca 360

tagaacccat ggaaagtttt agcttcaaat cacaaaattg caaaaaaaaa aaatggtaaa 420

tggctaaaca taagggggt tatggaaaat attgggtcac cttaattata ggtttaaatg 480

ccacaaacaa tataataata gttttaactt actttttcg attactaagc a 531

<210> 46
<211> 469
<212> DNA
<213> Homo sapien

<400> 46
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gaaagacagg aaggccagct aagaggaggt tttcagagtg cgtagaaagg ctgctctgtg 180

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tttgtgcacc atgcttagga ttcaaggagg ataaagtata tctttctaaa gttatacttt 360

agaaactgtc attccatgtt gaaatgataa acattccatg tttatctttt gtgtaagaag 420

taaaaaagca aaaattcatt gcatcaaagt aggtcaggca ctgctaaag 469

<210> 47
<211> 483
<212> DNA
<213> Homo sapien

<400> 47
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ctcaaagaaa tctgttttag tttgagatta cagtttatca aatgttaagg ctttgacccc 120

aaaatctggt cccagaaaga caggaaggcc agctaagagg aggttttcag agtgcataga 180

aaggctgctc tgtgcttcgg catttgttct ggaagtgctt cttcggttgg caaagattcc 240

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<210> 48
<211> 600
<212> DNA
<213> Homo sapien

<400> 48
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ctttacatcc caaggtcaag gccctggcaa cctcagaggt tcccatagct tcagtcttcc 180

ccaaaccatg ccacttcctc ccatttcttt gggtcaggaa tctggctttt gttttccata 240

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ccccaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaac aaaaaacgaa 360

gaacaaagaa cagagaaaaa aaaaaacaag aaacaccaaa aaacaaaaaa gaaaacgcgg 420

ccgccagcgc acgcgcgagg gcgccggagc acaccctgtg gccagcccgc gagcgagaag 480

ggagcgggcg gggcgggcgg gaccggagac ccaaggaggg cgcagggagc aacgaacggg 540

agccggagga gcgcgacact gcacgcagga gagcagacgg gaggggagac agcgcgggga 600

<210> 49
<211> 1098
<212> DNA
<213> Homo sapien

<400> 49
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aatcaaaaaa aaaaaaaaaa aaaaaaaaaa accctgggcg gtacccatgg cgcaaagcct 480

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<210> 51

<211> 1028
<212> DNA
<213> Homo sapien

<400> 51
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tggttttgtg tgtccacctt gcgcaactcc ggagccagcc gaccccacat ggattctcaa 360

caggtggccg gcacatcttc tgagcctcgc tctctcatct gaaagtggag tgtaagtcca 420

agaagattca tttagacaaa gaaggtggaa aaaaaggact ttctgggcca gcaagtcgga 480

tgaccaccct ccaaggggca gaggagggcc cattttgtga agaagaaatc aactacccgg 540

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gaaaatcact ttggagtcac ttaatcttcg ttagaagggc agtttcttcc agggccattt 780

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<211> 541
<212> DNA
<213> Homo sapien

<400> 52
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gttgcaaaag attgtatcag gagaagcctc agcatggaca ttggcatcct gacataaccc 480

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<213> Homo sapien

<400> 53
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cctctggaag tttttctcaa cgaaagaact gaagctttcc tcaaaagttc cgtaggggag 240

acagttcatc accataccca a 261

<210> 54
<211> 325
<212> DNA
<213> Homo sapien

<400> 54
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ataaaccctt atttattata aggaattggc ttacacaata atggaggccg agaaggcccc 240

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<210> 55
<211> 2461
<212> DNA
<213> Homo sapien

<220>
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<222> (356)..(393)
<223> a, c, g or t

<400> 55
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a 2461

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<211> 643
<212> DNA
<213> Homo sapien

<400> 56
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taatgtgtgc ctccttggaa ctgggtgttg gtgtccatgg aacttcctct ctgtatctca 180

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<213> Homo sapien

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<212> DNA

<213> Homo sapien

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<212> DNA
<213> Homo sapien

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<223> a, c, g or t

<400> 60
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<223> a, c, g or t

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<211> 568
<212> DNA
<213> Homo sapien

<400> 62
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<211> 791
<212> DNA
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<400> 63
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taactatctc atccaagaaa tgcagattca tgttgtttct aaatttttta tatatattga 240

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gcataccaaa taaagtaaaa actgtcctcc ggcaaaacaa caacccaaaa aaaaaagcgg 720

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<213> Homo sapien

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<211> 380
<212> DNA
<213> Homo sapien

<400> 68
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<212> DNA

<213> Homo sapien

<400> 69

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<211> 226
<212> DNA
<213> Homo sapien

<400> 70
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<210> 71
<211> 2554
<212> DNA
<213> Homo sapien

<400> 71
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<400> 72
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<210> 74
<211> 401
<212> DNA
<213> Homo sapien

<400> 74
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<212> DNA
<213> Homo sapien

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<210> 76
<211> 522
<212> DNA
<213> Homo sapien

<400> 76
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aactggactt catgctgagt atagatgata catataaaag aagtcaaaat ttggagaaaa 300

aatttaaaaa gataagtaga aaaatgaagt aactgtagaa accatactta ctctttgatc 360

tcaaatgctc aaaaactgaa tgaaaatgtg aatttaggcc gaccaggtag tcttgtcaat 420

aaactaaaag caaaaacagg aaaattgaga aatatgttac aactataaca acacaaaaca 480

gcatagtttt gaaacacttg cagttcttaa atataaaagc tt 522

<210> 77
<211> 1643
<212> DNA
<213> Homo sapien

<400> 77
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aaatttccat agtcataacc atggaaacat acaaaaaaca aacatgcaaa taaaatgtca 120

aaataattga gctgagtact ttgcatgctt taggaaataa gatgtagggt ggttctttgt 180

gccaatatat tcaagtaatt ggtttatctt cccatgtttt gctgctctaa acatgatcta 240

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<211> 755
<212> DNA
<213> Homo sapien

<400> 78
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ggccagcaga agggtctaaa atacagggta gtgaaaagag attacgagac tagtgagttt 240

cctttaaatg cttaactagt cattattaag acagccacat ttcagtgggg ctgagccaaa 300

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aacatatcta tgtctgacag ataggatagt cctacatatt caggaaactc cacgtatagc 660

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tggcaacacg accggtcaat tctcccaaca caacc 755

<210> 79
<211> 1002
<212> DNA
<213> Homo sapien

<400> 79
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cttgataaaa acattggtca agtcgggatg tagtcggcca ccaactagaa atgtgttaag 180

atttttttaa gcagacttgc ttaataaggc aaggagtggg gtcaggttgt tctaggggcc 240

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tgagcttgga atagcatatg cttggaatct gaatatgaat aaggcccagg tgccacactt 420

tacaccacag atcctttgct aaagaggcac tatttgtcta acaggcaagg accaggctgg 480

cagtcaggaa ggctgggttt tggtgctgat cttgtcacca actatgcact cttgaacaag 540

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tgtctgacgg taagatagtc taaatattca ggaaaactcc aagtatagct ctcctaaaaa 720

tgatatgttg cgtgttaaaa aaagaaaaaa aagaaaagaa gaaggggag gaaaaaataa 780

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<210> 80
<211> 374
<212> DNA
<213> Homo sapien

<400> 80
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aaatttggga ctacagtagc atataggttt tcagtttatt tactactaac tagctataac 300

ttagacaagt catttaacat gctgtgcttt agtttcatct ttgaaaccaa agagattcga 360

accagaaatc tctt 374

<210> 81
<211> 399
<212> DNA
<213> Homo sapien

<400> 81
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agccagacac aagagaattc taaattaaat gcagaagttc aagggcagca gccagaatgt 360

gattctacat ttcagctatt gcatgttggt gttactgtg 399

<210> 82
<211> 517
<212> DNA
<213> Homo sapien

<400> 82
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gtatgatgta tccggcaccc gacaggtcaa gaaagaacta cttgtttcta ggaagaacat 120

atgaagtgct taatttataa gcgggctgtc gaatattatc caatatagtt tcttctgaaa 180

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aaggttggtg tcaggtaatg catatttttt taagctt 517

<210> 83
<211> 619
<212> DNA
<213> Homo sapien

<400> 83
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tctactacct cctccccagc tgcccctacc ctaggcaatg ccaaatctac tttctgtcta 540

tatatttgcc tattcttgaa atttcaaata aatggaatcg tataatacaa acaaaaaaca 600

ggaaaaaaaa aaaaaaaag 619

<210> 84
<211> 646
<212> DNA
<213> Homo sapien

<400> 84
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cggcgccggg caggtaactc acccccccagg atagagaagt gtttgttagg gagagaagag 120

ggagaggcag gagccggccc aagcccaggg tccctgcttg ggccccagaa agcacttaac 180

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gcggtctacc tcaggtggcc atatgccggt gtgtcccggt ggtggtgaaa catgtggtgt 480

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ccaagcgaga cgaacgacca acagacacac cactcacaac caaagc 646

<210> 85
<211> 419
<212> DNA
<213> Homo sapien

<400> 85
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gcaagaacct ttccagaatt attattctaa ctagaatctt agccaagaga atggaatcac 180

cacaaatgtt atcatgaaaa tcatctcaag taaatttcct attccattca taccgttaag 240

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ttcaaaatta tgctggttat atgaattctt aaattcaagc tcttttccaa ataataaatg 360

ataaaacaac attttaatta gtattttacg taaaaatata tattaaaaag taaatcaag 419

<210> 86
<211> 2133
<212> DNA
<213> Homo sapien

<400> 86
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aacgatgaga attatcaatt tttcagtact actgacttgt tccttgtgga aggagggaac 240

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<210> 87
<211> 493
<212> DNA
<213> Homo sapien

<400> 87
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aatggccttt gagcatcact aagccccttt gcttctccca ttaagcaaag gatgatgact 420

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<210> 88
<211> 1412
<212> DNA
<213> Homo sapien

<400> 88
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<211> 624
<212> DNA
<213> Homo sapien

<400> 89
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aacaagaatc cggctcttcc gttctctgcc caccttggag tagcagtagc gttcagctgt 180

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atccccaaat tgggaaaaaa aagt 624

<210> 90
<211> 659
<212> DNA
<213> Homo sapien

<400> 90
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aagatcagct ccaccaggaa gccttcctgg atttcccctc ttagtttcca acagaatccg 180

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caaatgtttt caaccttggg taaaggaaca tgtaatggtg ttttttaaca aaacaaaaaa 540

ttaaaaaaaa aaaaaaacaa acataaaaaa caaccaacgg ctgggggcac ccgggggcaa 600

agggggcccg gggggacatt gtttttcccg gtaaaatccc caaattggga aaaaaaagt 659

<210> 91
<211> 556
<212> DNA
<213> Homo sapien

<400> 91
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taacatgatt ggagagtttc aggggaaagg tttacatttt ctgaaactgt atttggtatg 240

tgactcaatg tggtatttca gtcttgttag tcacttacat gactgacgtt tgcaaggatt 300

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gtcccacagt tgaagcatta acacacatct tcacgacaca atgaacacat acacattagc 480

aaacataagt ctcttaatgc aaaattacta gttgactaca atatagctac cttaaaagca 540

gagcttgcta taattc 556

<210> 92
<211> 635
<212> DNA
<213> Homo sapien

<400> 92
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tggtcttcag gtggcctgat catggaaagt aaggagttag gcattacctt ctgggagtga 300

accctgactc catccccctа ttgccaccct aaccaatcat gcaaacttct ccctccctgg 360

ggtaattcaa cagttaaaag aagctt 386

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<211> 654
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<213> Homo sapien

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<213> Homo sapien

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<211> 738
<212> DNA
<213> Homo sapien

<400> 130
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<211> 1875
<212> DNA
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<211> 828
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<213> Homo sapien

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<212> DNA
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<213> Homo sapien

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tgtattgtgg gatgtcaaaa gtatctccca aaactttcgt ttgacctgtc agagtgggga 660

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<211> 1350
<212> DNA
<213> Homo sapien

<400> 137
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gttcatggtg gagtagatgc tagtggaaag ccccaggaag ctgtttatgg ccaaaatgat 180

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gatgctcatg caaccttgag tgatggagta gttgtccagg tcatgggttt gctgtctaac 300

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tctgagcctg aacttgatga agaatcagaa gatgaagtag aagaggaaca agaagaaaga 480

caaccatctc ctgaacctgt gcaagaaaat gctaacagtg gttactatga agctcaccct 540

gtgactaatg gcatagagga gcctttggaa gaatcctctc atgaacctga acctgagcca 600

gaatctgaaa caaagactga agagctgaaa ccacaagtgg aggagaagaa cttagaagaa 660

ctagaggaga aatctactac tcctcctccg gcagaacctg tttctctgcc acaagaacca 720

ccaaagccaa gagtcgaagc taaaccagaa gttcaatctc agccacctcg tgtgcgtgaa 780

caacgaccta gagaacgacc tggttttcct cctagaggac caagaccagg cagaggagat 840

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<210> 138
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<212> DNA
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<220>
<221> misc_feature
<222> (509)..(509)
<223> a, c, g or t

<400> 138
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aataccgggc ctaatttcag aacaacaaaa aaaaaagaaa aaaaaaaaaa agcgcgggcc 420

ggaacccagg ggccaaaagg gtgggtcccg ggggggggaaa tctggttacc gcggcccaaa 480

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ccccccccc acaacccatc gccgccccg 569

<210> 139
<211> 739
<212> DNA
<213> Homo sapien

<400> 139
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gatattgaat tttagagaca atagaccaga taccttttcta atctcatttt attcattaat 180

gtcaaataat accatttta aaaatatggt gcttatttgt ctagcaagta acctatagaa 240

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atttgtatta ttctctccca atgactagat agtagtattt tacaatggag acttaaaagt 480

tttttgtgtt ttattctttc gcttttctat gccctcaatc caaagaacac cagaaataca 540

cttgtagtcg gaaaacttgg gtttatcact cgcatcaagg aatgacacac accatgggcc 600

actctggagc ctctcaataa aaggatgttt caaaggaaca acaacaaaaa aaaaaaaaaa 660

aaaacgttgg gggaaacaca gggcacaaag tgtcccgggg gaaattgttt tccgccacaa 720

tccaaaattc acaaaaacc 739

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<211> 1131
<212> DNA
<213> Homo sapien

<400> 140
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tacttggtgc ttgaaaaact gaagaaggaa gacgctgacc gaattcatat attcagttct 180

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aaggatttta tttttgtacc ccttaatgaa gcgtgagtaa gaatttcctt taaaggaaaa 360

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gaattaatgc agtttcacag tgaagcatgt aagatattga attttagaga caatagacca 540

gataccttte taatctcatt ttattcatta atgtcaaata ataccatttt taaaaatatg 600

gtgcttattt gtctagcaag taacctatag aaaagtatta ttttatacaa aaagatgatt 660

aggtcacata aaggaattgg aatcttaagt ttaaaataca cttctgtttt tagccagaag 720

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cttgcatcaa ggaatgacac acaccatggg ccactctgga gcctctcaat aaaaggatgt 1020

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<210> 141
<211> 887
<212> DNA
<213> Homo sapien

<400> 141
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gcatttaagg cccatgagtg atggtccatt ctgcagcttt tcatgccatg cctttccttt 180

gtgtgggggt ccacagatca gagtctgtct gtggcatcga cttccttatg tcctcattgt 240

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gtattaaaca aaaaaattta aacagctaaa aaaaaaaaac aaaaaacaaa cggctgggcg 480

aaaccagggc tcaatacggg ctccccgtgg tgctgaacac tggtatactc cgcggttcac 540

caattcccaa ccacaacata cgggcgagac aaggctgcac gcaacccggc acgcgcatgt 600

cgcaggacac gtcacggagc caagaacggg cagcaggacc acagagaacc agacgcaggc 660

cgcgcacgtg gagcggaggg gtagaaccga cagccgccgc gccgtgggca gcggccatgg 720

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<210> 142
<211> 2086
<212> DNA
<213> Homo sapien

<400> 142
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<210> 143
<211> 676
<212> DNA
<213> Homo sapien

<400> 143
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aagagggttt cgctag 676

<210> 144
<211> 1260
<212> DNA
<213> Homo sapien

<400> 144

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<210> 145
<211> 433
<212> DNA
<213> Homo sapien

<400> 145
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gttatagcaa aattaagtag attgaatcaa gtccatgcaa aagcagtaaa acagttatta 180

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<211> 1791
<212> DNA
<213> Homo sapien

<400> 146
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<210> 147
<211> 349
<212> DNA
<213> Homo sapien

<400> 147
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cttcagagcc taattaatgt ttaattctaa ataaattgca acaattaag 349

<210> 148
<211> 848
<212> DNA
<213> Homo sapien

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atttttatt tttagtagaa gatggggttt cgccatgttg gccggactgg tctggaactc 480

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gacagtgtag atctaagatt aattcctcaa ctgttttgca ctcaacaaag acatacctct 660

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gggccatggc ctcgatgatg gtctccacag gtctttccac ctctgtgagt ccaagtcagg 180

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<210> 150
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aataagtatc tatgtaaatt tgtttaaaat aaactgaatg tatttaatgg tccatttata 1980

tgttcttttа tgtaacatgt agtttaataa agttcctgtt tatgagagtc atgtttcatc 2040

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<213> Homo sapien

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aagaagtatg agtcccaggg tattaacaag gtggaggggc aataaaattt attacatatt 360

gggattcata ctaaatgagt agattttagc ttctcttgcc acaataaaca aaaaaaatgc 420

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gtttcccgcc atcaaattaa aacacacag 509

<210> 152
<211> 560
<212> DNA
<213> Homo sapien

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actaaatgag tagattttag cttctcttgc cacaataaac aaaaaaaatg ccacaacacc 480

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<211> 577
<212> DNA
<213> Homo sapien

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atgctttggt ttgttcagaa tacactatga acttctttcc aaagacgggt tgtggtaaat 540

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<211> 1138
<212> DNA
<213> Homo sapien

<400> 154
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<211> 800

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<210> 157
<211> 998
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<213> Homo sapien

<400> 157
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<213> Homo sapien

<400> 159
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ccatagaaaa gttatttttt attagtaaag aatgctttgt atttcctttg tggcttctaa 180

gtaccctttt ttggttatta tacctttatc cataagtatc tttaaatatt acaaaaatta 240

catattcttt taaatatttt aaagatttat tatattcatt taggttttaa tccactttta 300

atttttaga tgaaaagtaa gagaaaagta tataaatcat gagcacaaat tgaactaacc 360

aaggtaacaa tcaatctgct caagaaattg agcatcacca ccacctcctc ctgcactgtc 420

caaatcagca ccccagtact ccaaagcaaa tgttactcac tacactgact tctaacacaa 480

tagacttgtt ttgtctgttt tcaactatac aaaaatgaat catagagtat gtgttgtttt 540

gtatctggct cctttcacta aaattttggt ttataaaatt catccatgtg gttgaacaca 600

gttgtagatt gttcatttta attgttttac agtatttatt gtgtgactaa aacactactt 660

atttattcta taattgacag actttgggtt gcttttgctt tgggagtata aacattttta 720

tatctatgct ttaggtacat gttcatgaat ttgtgctgaa taattacttg agtgtgaaat 780

tgttatgtta tgcgatatat agtagtcaaa tatagaagat aatgcaaaac aatttaaagt 840

gattgtagca gtttgctgta ttctacagca gcagattgta gcagattact gtattctaca 900

gcagcagcat gtgagattgc cagttgctca aattcgtgcc aatacttggt atttttatc 960

ttttaatttt agacattctg gagagtgtgt agtaattttt catcttggaa aattacatta 1020

aattagtatc catttctcta attttgataa cattttcata agtttattgt tattagatat 1080

tttctttatt ttgaagtgct tattgtccat tttacattgg gtcatctgtt attgaattgt 1140

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tattgttcaa taaacaaaac aaaaaaaaaa aaaaaaaaac acaaaaaaac aaaagcgcgg 1320

ggggtaaccg ggggcccaag ggggtccccg ggggacattg gtctccccgg tcacaattcc 1380

ccccaatcgc acaacagggc 1400

<210> 160
<211> 556
<212> DNA
<213> Homo sapien

<400> 160
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tatagtctac tgcccatgta aggatcagct ccggctaaga ggccaaagat gggtgacatc 120

gtcatgctct gccttttatt ttttctttct tacccactta gcttcctaat tggaggaagg 180

aggcgtggta aaggtatatg aagactatgg tttaattaga ccagaaaaca ctgtcataat 240

ctctgggcgt cagtcagaat gtccagtttt gtctttgggc caagataagg gcagtgggat 300

ttatgatgtg ttgtttatag tctgaaacta ctctggtgat caccagggtc agtttcttta 360

atcgatggtt tccaagctgg cctaagtaca tttaagtaga gactgggctg ataaacatga 420

ccagacgaga cataaagacc ctgttgggaa tgacattgaa ctctcaaagt caagatttct 480

tacacaaatc tatcagctgg agaataatga gaggcagctg tggtatatgt gtgcaaataa 540

ggacattatg aagctt 556

<210> 161
<211> 1327

<212> DNA
<213> Homo sapien

<400> 161
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caaacattta ttgtatttat actattctat atgtactttt ccaggaacca ggaatacaaa 180

actgacatgt tctctgtaca gaggctcaga ctagtagaga acagttaggt acgccgttaa 240

ttataaacta atatgtatca tcaattatgg gtttttatgg gggtttggca ggtggaaggg 300

accagggaga gatgatgagt gatgatggtt atgtagtctt taggaggatg caattataac 360

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aacatggtca atggcttctg gatactcaca gttcaggcac agtttctcct gaagattttt 480

tacctctccc atctttaaga aattgtctgg atgtccatga aagatgctga cacttgtatt 540

aattcattaa aaaacaccac cccctccctg aaataaacta aaaagtaatg aattcataga 600

aaaaaatttc accaagattg aaactagaga atatacctag acttgcactt tgagctttga 660

gaaatgtgta cctattcacc attccaacgt gaagaagctc tgcagtagga aaaataatta 720

acacacttat agtctactgc ccatgtaagg atcagctccg gctaagaggc caaagatggg 780

tgacatcgtt atgctctgcc tttatttttt ctttcttacc cacttagctt cctaattgga 840

ggaaggaggc gtggtaaagg tatatgaaga ctatggttta attagaccag aaaacactgt 900

cataatctct ggggtcatca gaatgtccag ttttgtcttt gggccaagat aagggcagtg 960

ggatttatga tgtgttgttt atagtctgaa actactctgg tgatcaccag ggtcagtttc 1020

tttaatgatg gtttccaact ggcctaatac attaagtaag actggctgat aacatgacca 1080

gacagacata aagaccctgt tgggaatgac attgaactct caaagtcaag atttcttaca 1140

caaatctatc agctggagaa aatgaaggca gtgtggtata tgtgtgcaaa taaggacatt 1200

atgaagctta aatatggaat gtctcttgga cccccgatgt catctgtatt ctctttttct 1260

tcttgtacta tatcctttgc ctgtaaataa aaggtttatt tgaaaaaaaa aaaaaaaaaa 1320

gatcggc 1327

<210> 162
<211> 318
<212> DNA
<213> Homo sapien

<400> 162
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ataaagcaca aagctgtgag agtattaaat atggacacta gatttacatt tccaacaaga 120

aattcatctc cctccaaagt cccagaccag ggctagaatg tggttcattt ttaacaatca 180

aagtggcaag atctgtttgg tgatcactgt aaaacaggaa acacagtaat gccttcatgt 240

tgaggtgcta aaaggtcaag cttgggtaac aatgtccata gctgttctgg tgaatgtttc 300

gtcaatcaaa tagtgaaa 318

<210> 163
<211> 1042
<212> DNA
<213> Homo sapien

<400> 163
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gatgtcactg aggtgacccc agcctgtttg cagttccaag tcttccgtgt aggcgtcact 120

gctactggaa ctttgtagat gaggagcctg tatgatgatg tcctgaacat ttctatcctt 180

tcctcacaca gagggaagct actgggaata tcagagacaa gctattatta aacaagtgtc 240

tctagtccaa gacatctcct gtggcaggga aatgaggggg caggctgtat cagtgatatt 300

tttataaact ctggttttag aaaaaattct tcagatggac gcattatttt aagactttaa 360

cattttccaa aaccaactga atcttatccc ctccatttat ccccctccag acacttctaa 420

tcaaggtcac catctccaac ttcccccata gacagtaaaa atatggctgg agaattctac 480

tgtaatagaa aaccaaggag atatggtaat ttgacagtgt gtttcctttc catccactag 540

acaagaatac cccctcccat tctttcctcc cctcagtcac cagaatgaag tgggctggaa 600

aacagttggt ctggttcctt tatagagact gattcccaca ttggatactg cctggaggcc 660

ttggggatga atgagaagtt ctgctggttt ggatcagtag cagaagcagg taacacatca 720

gggaaccggt cagcctaaga taggagggga cagaaaatga tgaaagagtt tctgatacat 780

ttatcagcta aattgctatg gtcaccccca tgtctcctgt aatgtccaac actaaggaat 840

taaactaagt aaactacaac ctttgtgtct tgctctgacc ttggaccaat ggaatatact 900

tcttatttca tattcagtgg ataagcaaat ctgcttcatc cctgccttaa ctcactcaag 960

gtctctgtga tgcactccag agttttcctc cttccctgca tagtcttctc ctccctagct 1020

gcctttcaaa ttggtgaaaa tg 1042

<210> 164
<211> 1120
<212> DNA
<213> Homo sapien

<400> 164
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ctgaggtgac cccagcctgt ttgcagttcc aagtcttccg tgtaggcgtc actgctactg 180

gaactttgta gatgaggagc ctgtatgatg atgtcctgaa catttctatc ctttcctcac 240

acagagggaa gctactggga atatcagaga caagctatta ttaaacaagt gtctctagtc 300

caagacatct cctgtggcag ggaaatgagg gggcaggctg tatcagtgat atttttataa 360

actctggttt tagaaaaaat tcttcagatg gacgcattat tttaagactt taacattttc 420

caaaaccaac tgaatcttat cccctccatt tatccccctc cagacacttc taatcaaggt 480

caccatctcc aacttccccc atagacaata aaaatatggc tggagaattc tactgtaata 540

gaaaaccaag gagatatagt aatttgacag tgtgtttcct ttccatccac tagacaagaa 600

taccccctcc cattctttcc tcccctcagt caccagaatg aaggggctgg aaaacgttgg 660

tctggttcct tttagagctg attccccatt ggatactgcc tggaggcctt ggggatgaat 720

gagaagttct gcagtttgga tcagtagcag aagcaggtaa cacatcaggg aaccggtcag 780

cctaagatag gaggggacag aaaatgatga aagagtttct gatacattta tcagctaaat 840

tgctatggtc accccatgt ctcctgtaat gtccaaacct aaggaattaa ctaagtaaac 900

taaaaccttt gtgttcttgc tctgaccttg gacaatggaa ttcttcttat tttcattcag 960

tggatagcaa atctgcttct tccctgcctt aactcactca aggtctctgt gatgcactcc 1020

agagttttcc tccttccctg catagtcttc tcctccctag ctgcctttca aattggtgaa 1080

aatgaagctt caggattatg aaaactagta cttaatgaag 1120

<210> 165
<211> 810
<212> DNA
<213> Homo sapien

<400> 165
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cttacatctg tgcctggtcg gccatcaagt ctgggtgcca ctgtttgaga tttggggctg 120

tttcctgcaa ctgatctctg ctacagataa ggcttccctc ctggaggcca aagccctggt 180

taacgttaag agctctatga tgatgcaaac ttcagaggcg atcacctaac ataacaaaaa 240

cctccccaga accagaacct gtttttttcac caaaaccctt ccgctgcttg aataagaatg 300

tcttttcctt tcctaccaac tttgatgcca ctggccactg tgacataact tttacttagc 360

ggggtaaatc atagatggat tacttgaact gccaacacaa gactgctgga cgagggacag 420

agctggatat gttagacaaa gatatacgaa cgacttggcg taatcactgg tcaatagctg 480

acaccatgat gtgaaaagta gtaatcacgg ctcacaagta ccaacacaag atacagaaga 540

caggagaaga ggaacaggaa aagaagaaac aacagagcac aaagagagaa caagcacaca 600

acagacgaag gccacaagag cgaaggagga ccggacgcag caccagcaac agaggaacgg 660

cacgcacaga agaacacaga caagaaaacg agaagaaacc acacgcacaa ctagccagaa 720

tcagagacag aaaacgcgaa gacaggaggc agaagcagaa acacaagaaa accgaacacc 780

aaaacaggca gcacaaacac gaagagaaag 810

<210> 166
<211> 601
<212> DNA
<213> Homo sapien

<400> 166
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ggatccgccc gggcaggtac tcaggtgtta tatgattttc tgagctgaat aagtgcgagg 120

agcagattat taagatctgc cattctgaaa cgctggtctt tttctccttc ctatagtgca 180

ccataaaatt ctgttgatca gattatatta catacatttg ggggagtgga gggacatgag 240

ttaagtagcc cttcatgtat ttataatctc ttttctactg aatcaaatga cttagccatg 300

accctgaatg gacctgtttt acttcaagtg agatgtctgc cttttatgaa ttgtatatgt 360

gaatagagtt cgggggttgc caaaaatgca tacatgtatg taagtaaaat tttttatgaa 420

gtagtctgtc aaatgtatca taaagtttat ttttctttta tacgtaaatc attaaaaata 480

atcacatatt tttgaaaaaa aaaaaaaaaa aaaaaaaggt ggggggtatc tcggggccaa 540

aaggggtccc gggggggaat tggttttccg gttcaaattt ccacaaattt gggagaaaat 600

a 601

<210> 167
<211> 1035
<212> DNA
<213> Homo sapien

<400> 167
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cagattgtgt tttcccaact taggctcttt attaattggt taaggttttc tccaaaaagg 120

gcatttcaac aatgggaatt attttaaatt ggttaaacca gtgggcacag attacttatc 180

ttccttctct gctttgtgac tcaccagcag taacacacac aatccacatc ttgtgcacct 240

caaatgaaca gacttggttt ccttgctttc ttgacatttc catgactgtt tcacatacaa 300

actattgggt gaggtttttc agctgttacc gacccacgtc ctgctgtctc tgtgtggtcc 360

tacaaaaact gtccattccc acccctttgc tttgccattt gcaagagtct ggaattgtca 420

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gacctacaaa gtctagtttg tatgtaggta tgaagggaat tttttaaata aagtggaaaa 540

gctgtgaaca gcattagaac tctgtctatt tcttaatttt aaaatatgct gatatgcctt 600

aaactgtagt tgtagatcct tgtcattttg ctgtttgaaa ataaccaatg tgttttctaa 660

aactgtcgtg taatctactt tcattgttaa tgcagaattg tcatatatgt aagccgcatg 720

ttagacattt gtctttttta aactaaagta attgtattga tgtgaagcat atcatttttt 780

caaatatgaa agtgatcact tagcaacatg cttggtaatt tggcatctgt taaggtagga 840

gagtggtgaa cagataatct atgcatatat cactagtgcc aagacataaa gcgggggaaa 900

atatattttt acccaaacat taaaaaaaac aaaaaaaaaa aaaaaaaaaa aaaaaaaggc 960

tgggggtaac cggggccaaa ggggtcccgg ggtgaattgg ttttccgctc aaattccccc 1020

atttttgggc aaacc 1035

<210> 168
<211> 1666
<212> DNA
<213> Homo sapien

<400> 168
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ctacatagcc tcatgggcat cattggatag ctcagagggc ccttgattct ggcaaggcaa 120

ataaagccag aatgagaaat taccatcttc tactagagaa aaccaagaga aaaatttta 180

tgctaggatg cctttatgac cacttaattt tttaatctta gtttaatggt ctctccctgg 240

tgctaactgc tgacagtggc cacctctttt ttggggattg aggggcctac ataactagct 300

ggccttaccc catatctttt gttcaaacat aataccatct ttttgcttct tctgaacttt 360

agatctccat aacacatgta ctgtagaatg tgatggaaaa gcattgatga gaatttattg 420

gcagttcaga ttgtgttttc ccaacttagg ctctttatta attggttaag gttttctcca 480

aaaagggcat ttcaacaatg ggaattattt aatgtaacag tgggcacaga ttacttatct 540

tccttctctg ctttgtgact caccagcagt aacacacaca atccacatct tgtgcacctc 600

aaatgaacag acttggtttc cttgctttct tgacatttcc atgactgttt cacatacaaa 660

ctattgggtg aggtttttca gctgttaccg acccacgtcc tgctgtctct gtgtggtcct 720

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atatttttac ccaaacatta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa caactgtgtt 1320

cggcgcgctt gtggccccgg aagaagagtc ttctcgtaga accatcgtgg tttgggccca 1380

gcggggcccc aggaggtagg gtgccacacg ggccaaaagc gtgtcccagg agacacccgg 1440

gggcactaga acaacttagg gtgtgtgagg aatattttcg ctcaccccat gttacaaaaa 1500

caaccgcgca gagggggcaa acagcaacag ggtttctgtg aaacaacaac ccccaaatgg 1560

agggaagtcc tcgagaagga catacaggga aagcctaata caacagaggg aagatcccaa 1620

ggaaaagcac tatcatataa ataattatcg ccgccggctg tgcggg 1666

<210> 169
<211> 633
<212> DNA
<213> Homo sapien

<400> 169
aaaacaacac ggaatgtcta cgactaacta tagggcccct ggtgtatcta gatgcatgct 60

cgagccggcc gccatgatgt gactggatgt cgcggccgag gtacagagta tgtagtgggc 120

atctgttgaa tgaatgcttt tcccagtacg cacgtgtatt catacaatat taatataatt 180

agtcccctgg gcttacagat aaaaatgaaa cgcatcaacg tgcccagctg cagtgagacc 240

caggtgttct tcctccaccc ctagtggtcc cctgggcagg tctttttttt ttggtaacac 300

tcaccaggtc tgttctgtag tcaatcatgt gatggactgt gtcggtgaac tgtgcaggac 360

actgttctca tagtgttcat tagcgacaga gtaaacatgt ttgccatgca agggttattt 420

ggcatctgca tttaagtgat aatgttgaat caatgaaaag gtgttgatta agcagtagtt 480

gtagatatgc taagtttttc aaattactaa tatcaagtgg agatggtttt tactttataa 540

gggtattgct ttggtgatag cataaataat gggtttccct ttttggtaac tgtaacatta 600

attggctggc aactttggta ttcccataga ctg 633

<210> 170
<211> 563
<212> DNA
<213> Homo sapien

<400> 170
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tggatcggcg ccgggcaggt acaaaaaata ggataaatgc ttgtttttt atttagcaat 120

gtccaaaata atgaattgat ttcccgagta tcctctaaag gtaaccaggg attttttta 180

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ggatttacag ggcattgttg caagtttccc acattttcag tgagaaattc ctcaattggc 480

ctccgtgagt ggtttggaaa ttgaccccag aattcttgga gtgggtgtat tagctatcta 540

tggctggtgt aacaaattga cct 563

<210> 171
<211> 682
<212> DNA
<213> Homo sapien

<400> 171
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agcaatacct aaatccgtga tatcatcaga ggttgcaaaa tgatgagatt caggtttttt 120

ttttacataa ttattggtca gaattattct gcaaatagct tctctttaac agtattcggt 180

taccttgaaa tacaggttgt acaaaaaata ggataaatgc ttgtttttt atttagcaat 240

gtccaaaata atgaattgat ttcccagtat cctctaaagg taaccaggga ttttttttat 300

ttaattatct tgaacccaca tatttaaata tacgtagtat gctacaaacc attgcagtta 360

atacctttat tgatgcttga gttgcccact tttttctttt ttttttttg gagacagagc 420

ctcgctctgt cacccaggct ggagtgcagg ggcgtcatct ttgactcact tgcaaccttc 480

cttccttccg tggggtgcag gcagattctc ctgtgcctta cagcctccga gtttggctgg 540

gatttacagg gcattgttgc aagtttccca cattttcagt gagaaattcc tcaattggcc 600

tccgtgagtg gtttggaaat tgaccccaga attcttggag tgggtgtatt agctatctat 660

ggctggtgta acaaattgac ct 682

<210> 172
<211> 75
<212> PRT
<213> Homo sapien

<400> 172

Met Gly Pro Arg Ser Arg Leu Trp Pro Ser Ser Pro Leu Trp Leu Val
1 5 10 15

Gln Pro Leu Cys Thr Pro Gly Val Phe Thr Pro Gly Ala Asp Ser Ser
20 25 30

His Cys Ser Ser Phe Leu Arg Glu Ile Thr Val Val Ile Ala Ala Gly
35 40 45

Ala Asn Arg Leu Gly Leu Val Ser Cys Ala Phe Gly Gln Leu Leu Thr
50 55 60

Arg Ser Ser Leu Lys Gln Trp Gly Gly Pro His
65 70 75

<210> 173
<211> 38
<212> PRT
<213> Homo sapien

<400> 173

Met Phe Pro Arg Leu Asp Ser Thr Ser Trp Pro Gln Gly Ile Leu Trp
1 5 10 15

Ala Trp Thr Pro Lys Pro Leu Arg Leu Glu Val Cys Glu Pro Pro Ser
20 25 30

Leu Pro Ser Leu Trp Ser
35

<210> 174
<211> 52
<212> PRT
<213> Homo sapien

<400> 174

Met Thr Leu Phe Ile Arg Cys Cys Thr Asn Tyr Gly Asn Leu Cys Gln
1 5 10 15

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Tyr Phe Asn Val Cys Trp Ile Ile Thr Asp Ile Phe Ile Ile Leu Met
            20                  25                  30

Ser Thr Asn Leu Phe Ile Leu Ile Ala Arg Val Ser Leu Gly Ser Lys
        35                  40                  45

His His Leu Gly
    50
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<210> 175
<211> 37
<212> PRT
<213> Homo sapien

<400> 175

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Met Ala Gly Ser Gly Lys Val Pro Ile Thr Thr Thr Tyr Lys Pro Pro
1               5                   10                  15

Thr Asn Ser Asn Ala Ile His Leu Pro Thr Pro Ile Ile Arg Lys Ala
            20                  25                  30

Gly Phe Thr Gly Ile
        35
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<210> 176
<211> 88
<212> PRT
<213> Homo sapien

<400> 176

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Met Gly Leu Thr Leu Lys Ser Leu Cys Asp Ser Lys Met Asn Cys Gln
1               5                   10                  15

Ser Asn Val Pro Leu Met Lys Asp Pro Ile Thr Leu Gln His Val Cys
            20                  25                  30

Ile Gln Arg Thr Tyr Leu Arg Leu Ser Phe Gly His Gly Gly Arg Leu
        35                  40                  45

Leu Leu Lys Thr Tyr Gln Ser Pro Leu Trp Arg Ser Ala Asp Arg Pro
    50                  55                  60

His Asp Leu Gly Asn Gly Leu Leu Val Ile Trp Asp Cys Leu Gly Leu
65                  70                  75                  80

Cys Asn Gly Thr Trp Gly Gln Asn
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85

<210> 177
<211> 61
<212> PRT
<213> Homo sapien

<400> 177

Met Asp His Lys Ser Ala Asn His Ser Ser Ala Leu Leu Lys Met Leu
1 5 10 15

Leu Ala Gly Gly Met Ser Leu Pro Glu Val Pro Glu Gly Leu Thr Pro
20 25 30

Thr Pro Ser Ser Gln Thr His Leu Ser Lys Gly Lys Gly Arg Asn Leu
35 40 45

Glu Lys Ser Tyr Phe His Asn His Ser Leu Arg Glu Pro
50 55 60

<210> 178
<211> 198
<212> PRT
<213> Homo sapien

<400> 178

Met Thr Pro Ile His Leu Ile Cys Ser Pro Ser His Glu Leu Gln Asp
1 5 10 15

Thr Thr His Pro Gln Pro Gln Arg Glu Cys Gln Arg Phe Ser Thr His
20 25 30

Gly Ala Gln Thr Thr Gln Cys Ala Thr His His His Pro Tyr Ile Ser
35 40 45

Gly Ala Ala Thr Arg Thr Tyr Leu Arg His Val Ala Pro Asp Tyr Ser
50 55 60

Ala Pro Leu Met Ala Pro Pro Thr Asn Thr Arg Leu Ala Pro Ala Ser
65 70 75 80

Leu Gln Pro Thr His Leu Arg Pro Pro Leu Ala Arg His Pro Leu Thr
85 90 95

Ala Asp Cys Arg Thr His Gln Leu Thr Asp Thr Arg Pro Leu His Pro
100 105 110

```
Arg Pro Ile Thr Ser Arg Thr Pro Gln Pro Leu Pro Ser His Thr His
        115                 120                 125

Gly Leu His His Thr Arg Pro Pro His Thr Ala Thr Gly Cys Pro Tyr
    130                 135                 140

Leu Ser Thr Ser Arg Pro Leu Pro Pro Leu His Thr Arg Ser Ile His
145                 150                 155                 160

Pro Asp Asn Pro His Cys Thr Thr Pro His His Ser Pro Ser Lys Pro
                165                 170                 175

Ser Thr Thr Thr His Gln Gln Ser Pro Ala Pro Thr Pro Asn Lys Pro
            180                 185                 190

His Pro Arg Arg Ala Ser
        195
```

<210> 179
<211> 20
<212> PRT
<213> Homo sapien

<400> 179

```
Met Ile Gly Ile Thr Trp Cys Phe Glu Leu Ile His Pro Thr Leu Glu
1               5                   10                  15

Leu Thr Ala Thr
            20
```

<210> 180
<211> 107
<212> PRT
<213> Homo sapien

<400> 180

```
Met Gly Ala Ser Gly Pro Glu Arg Glu Asp Arg Asn Ser Glu Asn Gly
1               5                   10                  15

Val Glu Lys Lys Asn Val Lys Glu Leu His Glu Glu His Met Ala Glu
            20                  25                  30

Lys Lys Glu Leu Gln Glu Glu Asn Gln Arg Leu Gln Gly Leu Pro Val
        35                  40                  45
```

```
Ser Gly Ser Glu Glu Gly Arg Leu Pro Val Pro Ser Ala Arg Ser Ser
    50                  55                  60

Thr Leu Arg Ala Ser Cys Arg Asn Glu Leu Gly Ser Leu Leu Pro Gly
65                  70                  75                  80

Gly Glu Thr Ser Leu Gly Leu Lys Glu Gly His Arg Thr Lys Gly Ala
                85                  90                  95

Arg Gly Gly His Arg Glu Asp Pro Gln Glu Lys
            100                 105
```

<210> 181
<211> 27
<212> PRT
<213> Homo sapien

<400> 181

```
Met Ser Thr His Ser Val His Ser Thr Gly Leu Pro Phe Tyr Lys Leu
1               5                   10                  15

Ser Leu Thr Ser Leu Ser Ser Met Thr Leu Val
            20                  25
```

<210> 182
<211> 40
<212> PRT
<213> Homo sapien

<400> 182

```
Cys Phe Glu Lys Met Leu Asn Arg Leu Gly Ala Val Ala His Val Cys
1               5                   10                  15

Asn Pro Ser Thr Leu Gly Gly Arg Gly Gly Trp Ile Met Arg Ser Gly
            20                  25                  30

Val Arg Asp Gln Pro Gly Gln His
        35                  40
```

<210> 183
<211> 26
<212> PRT
<213> Homo sapien

<400> 183

```
Met Arg Lys Gln Ala Phe Asp Leu Leu Glu Ser Thr Ala Gln Lys Ser
```

1 5 10 15

Leu Val Pro Ile Phe Glu Phe Pro Lys Gln
20 25

<210> 184
<211> 39
<212> PRT
<213> Homo sapien

<400> 184

Met Lys Glu Glu Gly Arg Leu Leu Thr Val Ala Glu Gly Arg Gln Gly
1 5 10 15

Pro Ser Cys Ser Ser His Ile Asn Ser Lys Lys Pro Ser Gln Gln Asn
20 25 30

Lys Ser Ile Phe Asn Ser Ser
35

<210> 185
<211> 76
<212> PRT
<213> Homo sapien

<400> 185

Met Val Glu Pro Ala Leu Ser Gly Cys Gln Gln Arg Lys Gly Gly Tyr
1 5 10 15

Ser Ser Glu Arg Gln Ser Gln Pro Thr Gln Gly Gly Gln Gly Val Arg
20 25 30

Pro Gln Thr Tyr Ser Pro Ala Asp Leu Thr Val Arg Pro Ser Cys Ser
35 40 45

Gly Thr Gly Asn Ala Gln Ala Glu Ile Ala Leu Leu His Thr Tyr Asn
50 55 60

Thr Thr Leu Glu Asn Asn Leu Glu Trp Phe Thr Leu
65 70 75

<210> 186
<211> 35
<212> PRT
<213> Homo sapien

<400> 186

```
Met Arg Gln Pro Cys Leu Ala Ile Pro Glu Ala Ser Ala Ser Leu Ile
1               5                  10                  15

Cys Arg Cys His Arg His Phe Thr Tyr Ser His Leu Met Ala Arg Phe
            20                  25                  30

Leu Leu Leu
        35
```

<210> 187
<211> 76
<212> PRT
<213> Homo sapien

<400> 187

```
Met Phe Phe Ala Leu Met Gly Ile Cys Pro Gly Thr Leu Pro Pro Gly
1               5                  10                  15

Pro Pro Leu Pro Arg Trp Pro Pro Pro Val Phe Cys Phe Phe Phe Phe
            20                  25                  30

Phe Phe Gly Phe Phe Phe Cys Cys Phe Thr Val Lys Leu Phe Ile Glu
        35                  40                  45

Gln Ile Glu Asp Asn Asp Ile Cys Phe Tyr Tyr Arg Ser Leu Pro Ser
    50                  55                  60

Ser Tyr Ile Ile Asp Thr Tyr Tyr Glu Thr Cys Ile
65                  70                  75
```

<210> 188
<211> 173
<212> PRT
<213> Homo sapien

<400> 188

```
Met Ile Gly Cys Ser Leu Leu Val Ala Cys Leu Cys Cys Leu Val Gln
1               5                  10                  15

Ser Phe Arg Ala Met Phe Ser Cys Phe Ser Gly Leu Ser Leu Cys Leu
            20                  25                  30

Met Leu Pro Leu Trp Cys Val Cys Pro Thr Val Cys Ala Phe Phe Cys
        35                  40                  45
```

Gly Tyr Leu Leu Phe Phe Ser Leu Arg His Ala Ala Cys Gly Cys Leu
50 55 60

Leu Val Cys Leu Ser Cys Leu Ala Leu Pro Ser Gly Pro Ile Leu Ser
65 70 75 80

Phe Ser Phe Cys Leu Arg Val Val Ser Ser Val Arg Val Ala Cys Ala
85 90 95

Arg Ser Ala Ala Val Leu Leu Leu Arg Gly Val Pro Pro Pro Ser Leu
100 105 110

Arg Thr Leu Ser Leu Ile Ala Ser Thr Ala Thr Arg Leu Ser Phe Val
115 120 125

Phe Leu Phe Ser Leu Pro Arg Gly Leu Leu Cys Val Gly Gly Ser Gly
130 135 140

Ser Val Leu Gly Ser Leu Val Arg Arg Ala Gln Ser Val Gly Leu Arg
145 150 155 160

Asp Phe Val Ser Val Leu Gln Val Val Leu Thr Cys Leu
165 170

<210> 189
<211> 29
<212> PRT
<213> Homo sapien

<400> 189

Met Val Leu Tyr Ser Glu Gly His Gln His Gly Pro His Leu Leu Asn
1 5 10 15

Met Glu Asn Gln Asn Leu Asn Glu Leu Pro Leu Lys Gly
20 25

<210> 190
<211> 122
<212> PRT
<213> Homo sapien

<400> 190

Phe Phe Ala Asp Glu Val Ser Arg Leu Ser Pro Gly Leu Glu Cys Ser
1 5 10 15

Gly Val Ile Ser Ala His Cys Asn Phe His Leu Leu Gly Ser Ser Ser

20 25 30

Ser Pro Ala Ser Ala Ser Gln Val Ala Glu Ile Thr Gly Ala Cys His
35 40 45

Pro Thr Trp Leu Ile Phe Val Ile Leu Val Glu Thr Gly Phe His His
50 55 60

Val Gly Gln Ala Asp Ala Leu Leu Thr Ser Gly Asp Pro Pro Phe Ser
65 70 75 80

Ala Pro Lys Val Leu Gly Ile Thr Gly Val Ser His Arg Ala Arg Pro
85 90 95

Ala Asn Thr Phe Ala Leu Thr Thr Leu Gly Leu Leu Tyr Lys Ile Val
100 105 110

Met Ile Ala Met Glu Val Leu Pro Val Pro
115 120

<210> 191
<211> 11
<212> PRT
<213> Homo sapien

<400> 191

Met Trp Arg Ala Lys Gln Tyr Asp Leu Gln Thr
1 5 10

<210> 192
<211> 28
<212> PRT
<213> Homo sapien

<400> 192

Met Met Phe Ser Leu Ser Gln Lys Gly Ser Ala Ala Val Gln Ser Pro
1 5 10 15

Ser Thr Leu Ser Thr Pro Thr Phe Ser Ile Ser Tyr
20 25

<210> 193
<211> 48
<212> PRT
<213> Homo sapien

<400> 193

Met Asp Ser Gly Ala Arg Ala Gly Lys Pro Leu Leu Asp Pro Val Cys
1 5 10 15

Leu Pro Ala Trp Ser Leu Cys Leu Gln Pro Cys Leu Tyr Ser Ser Leu
20 25 30

Pro Pro His Gln Pro Pro Leu Ala Ser Pro Tyr Arg Leu Ser Lys Lys
35 40 45

<210> 194
<211> 1138
<212> PRT
<213> Homo sapien

<400> 194

Met Gly Asp Phe Ala Ala Pro Ala Ala Ala Ala Asn Gly Ser Ser Ile
1 5 10 15

Cys Ile Asn Ser Ser Leu Asn Ser Ser Leu Gly Gly Ala Gly Ile Gly
20 25 30

Val Asn Asn Thr Pro Asn Ser Thr Pro Ala Ala Pro Ser Ser Asn His
35 40 45

Pro Ala Ala Gly Gly Cys Gly Gly Ser Gly Gly Pro Gly Gly Gly Ser
50 55 60

Ala Ala Val Pro Lys His Ser Thr Val Val Glu Arg Leu Arg Gln Arg
65 70 75 80

Ile Glu Gly Cys Arg Arg His His Val Asn Cys Glu Asn Arg Tyr Gln
85 90 95

Gln Ala Gln Val Glu Gln Leu Glu Leu Glu Arg Arg Asp Thr Val Ser
100 105 110

Leu Tyr Gln Arg Thr Leu Glu Gln Arg Ala Lys Lys Ser Gly Ala Gly
115 120 125

Thr Gly Lys Gln Gln His Pro Ser Lys Pro Gln Gln Asp Ala Glu Ala
130 135 140

Ala Ser Ala Glu Gln Arg Asn His Thr Leu Ile Met Leu Gln Glu Thr
145 150 155 160

Val Lys Arg Lys Leu Glu Gly Ala Arg Ser Pro Leu Asn Gly Asp Gln
165 170 175

Gln Asn Gly Ala Cys Asp Gly Asn Phe Ser Pro Thr Ser Lys Arg Ile
180 185 190

Arg Lys Asp Ile Ser Ala Gly Met Glu Ala Ile Asn Asn Leu Pro Ser
195 200 205

Asn Met Pro Leu Pro Ser Ala Ser Pro Leu His Gln Leu Asp Leu Lys
210 215 220

Pro Ser Leu Pro Leu Gln Asn Ser Gly Thr His Thr Pro Gly Leu Leu
225 230 235 240

Glu Asp Leu Ser Lys Asn Gly Arg Leu Pro Glu Ile Lys Leu Pro Val
245 250 255

Asn Gly Cys Ser Asp Leu Glu Asp Ser Phe Thr Ile Leu Gln Ser Lys
260 265 270

Asp Leu Lys Gln Glu Pro Leu Asp Asp Pro Thr Cys Ile Asp Thr Ser
275 280 285

Glu Thr Ser Leu Ser Asn Gln Asn Lys Leu Phe Ser Asp Ile Asn Leu
290 295 300

Asn Asp Gln Glu Trp Gln Glu Leu Ile Asp Glu Leu Ala Asn Thr Val
305 310 315 320

Pro Glu Asp Asp Ile Gln Asp Leu Phe Asn Glu Asp Phe Glu Glu Lys
325 330 335

Lys Glu Pro Glu Phe Ser Gln Pro Ala Thr Glu Thr Pro Leu Ser Gln
340 345 350

Glu Ser Ala Ser Val Lys Ser Asp Pro Ser His Ser Pro Phe Ala His
355 360 365

Val Ser Met Gly Ser Pro Gln Ala Arg Pro Ser Ser Ser Gly Pro Pro
370 375 380

Phe Ser Thr Val Ser Thr Ala Thr Ser Leu Pro Ser Val Ala Ser Thr
385 390 395 400

Pro Ala Ala Pro Asn Pro Ala Ser Ser Pro Ala Asn Cys Ala Val Gln
405 410 415

Ser Pro Gln Thr Pro Asn Gln Ala His Thr Pro Gly Gln Ala Pro Pro
420 425 430

Arg Pro Gly Asn Gly Tyr Leu Leu Asn Pro Ala Ala Val Thr Val Ala
435 440 445

Gly Ser Ala Ser Gly Pro Val Ala Val Pro Ser Ser Asp Met Ser Pro
450 455 460

Ala Glu Gln Leu Lys Gln Met Ala Ala Gln Gln Gln Gln Arg Ala Lys
465 470 475 480

Leu Met Gln Gln Lys Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln
485 490 495

Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln His Ser
500 505 510

Asn Gln Thr Ser Asn Trp Ser Pro Leu Gly Pro Pro Ser Ser Pro Tyr
515 520 525

Gly Ala Ala Phe Thr Ala Glu Lys Pro Asn Ser Pro Met Met Tyr Pro
530 535 540

Gln Ala Phe Asn Asn Gln Asn Pro Ile Val Pro Pro Met Ala Asn Asn
545 550 555 560

Leu Gln Lys Thr Thr Met Asn Asn Tyr Leu Pro Gln Asn His Met Asn
565 570 575

Met Ile Asn Gln Gln Pro Asn Asn Leu Gly Thr Asn Ser Leu Asn Lys
580 585 590

Gln His Asn Ile Leu Thr Tyr Gly Asn Thr Lys Pro Leu Thr His Phe
595 600 605

Asn Ala Asp Leu Ser Gln Arg Met Thr Pro Pro Val Ala Asn Pro Asn
610 615 620

Lys Asn Pro Leu Met Pro Tyr Ile Gln Gln Gln Gln Gln Gln Gln Gln

625 630 635 640

Gln Gln Gln Gln Gln Gln Gln Gln Gln Pro Pro Pro Pro Gln Leu
645 650 655

Gln Ala Pro Arg Ala His Leu Ser Glu Asp Gln Lys Arg Leu Leu Leu
660 665 670

Met Lys Gln Lys Gly Val Met Asn Gln Pro Met Ala Tyr Ala Ala Leu
675 680 685

Pro Ser His Gly Gln Glu Gln His Pro Val Gly Leu Pro Arg Thr Thr
690 695 700

Gly Pro Met Gln Ser Ser Val Pro Pro Gly Ser Gly Gly Met Val Ser
705 710 715 720

Gly Ala Ser Pro Ala Gly Pro Gly Phe Leu Gly Ser Gln Pro Gln Ala
725 730 735

Ala Ile Met Lys Gln Met Leu Ile Asp Gln Arg Ala Gln Leu Ile Glu
740 745 750

Gln Gln Lys Gln Gln Phe Leu Arg Glu Gln Arg Gln Gln Gln Gln Gln
755 760 765

Gln Gln Gln Gln Ile Leu Ala Glu Gln Gln Leu Gln Gln Ser His Leu
770 775 780

Pro Arg Gln His Leu Gln Pro Gln Arg Asn Pro Tyr Pro Val Gln Gln
785 790 795 800

Val Asn Gln Phe Gln Gly Ser Pro Gln Asp Ile Ala Ala Val Arg Ser
805 810 815

Gln Ala Ala Leu Gln Ser Met Arg Thr Ser Arg Leu Met Ala Gln Asn
820 825 830

Ala Gly Met Met Gly Ile Gly Pro Ser Gln Asn Pro Gly Thr Met Ala
835 840 845

Thr Ala Ala Ala Gln Ser Glu Met Gly Leu Ala Pro Tyr Ser Thr Thr
850 855 860

```
Pro Thr Ser Gln Pro Gly Met Tyr Asn Met Ser Thr Gly Met Thr Gln
865                 870                 875                 880

Met Leu Gln His Pro Asn Gln Ser Gly Met Ser Ile Thr His Asn Gln
                885                 890                 895

Ala Gln Gly Pro Arg Gln Pro Ala Ser Gly Gln Gly Val Gly Met Val
            900                 905                 910

Ser Gly Phe Gly Gln Ser Met Leu Val Asn Ser Ala Ile Thr Gln Gln
        915                 920                 925

His Pro Gln Met Lys Gly Pro Val Gly Gln Ala Leu Pro Arg Pro Gln
    930                 935                 940

Ala Pro Pro Arg Leu Gln Ser Leu Met Gly Thr Val Gln Gln Gly Ala
945                 950                 955                 960

Gln Ser Trp Gln Gln Arg Ser Leu Gln Gly Met Pro Gly Arg Thr Ser
                965                 970                 975

Gly Glu Leu Gly Pro Phe Asn Asn Gly Ala Ser Tyr Pro Leu Gln Ala
            980                 985                 990

Gly Gln Pro Arg Leu Thr Lys Gln  His Phe Pro Gln Gly  Leu Ser Gln
        995                 1000                1005

Ser Val  Val Asp Ala Asn Thr  Gly Thr Val Arg Thr  Leu Asn Pro
    1010                1015                1020

Ala Ala  Met Gly Arg Gln Met  Met Pro Ser Leu Pro  Gly Gln Gln
    1025                1030                1035

Gly Thr  Ser Gln Ala Arg Pro  Met Val Met Ser Gly  Leu Ser Gln
    1040                1045                1050

Gly Val  Pro Gly Met Pro Ala  Phe Ser Gln Pro Pro  Ala Gln Gln
    1055                1060                1065

Gln Ile  Pro Ser Gly Ser Phe  Ala Pro Ser Ser Gln  Ser Gln Ala
    1070                1075                1080

Tyr Glu  Arg Asn Ala Pro Gln  Asp Val Ser Tyr Asn  Tyr Ser Gly
    1085                1090                1095
```

```
Asp Gly  Ala Gly Gly Ser Phe  Pro Gly Leu Pro Asp  Gly Ala Asp
    1100                1105                1110

Leu Val  Asp Ser Ile Ile Lys  Gly Gly Pro Gly Asp  Glu Trp Met
    1115                1120                1125

Gln Glu  Leu Asp Glu Leu Phe  Gly Asn Pro
    1130                1135
```

<210> 195
<211> 30
<212> PRT
<213> Homo sapien

<400> 195

```
Met Gln Leu Pro Leu Ser His Lys Arg Lys Lys Gln Tyr Ser Phe Tyr
1               5                   10                  15

Val Phe Asp Thr Asn Ile Lys His Asn Ser Val Leu Val His
            20                  25                  30
```

<210> 196
<211> 46
<212> PRT
<213> Homo sapien

<400> 196

```
Met Lys Ile Tyr Phe Lys Ile Leu Leu Met Phe Leu Lys Lys Tyr Phe
1               5                   10                  15

Leu Arg Phe His Leu Met Lys Thr Met Lys Tyr Ser Val Phe Tyr Ser
            20                  25                  30

Thr Thr Arg Gln Met Trp Ser Ile Pro Phe Val Phe Phe Phe
        35                  40                  45
```

<210> 197
<211> 18
<212> PRT
<213> Homo sapien

<400> 197

```
Met Leu Glu Ala Gly Ile Ser Phe Lys Val Arg Leu Gln Lys Trp Lys
1               5                   10                  15

Gln Ile
```

<210> 198
<211> 132
<212> PRT
<213> Homo sapien

<400> 198

Met Phe Tyr Ser Ile Leu Ala Met Leu Arg Asp Arg Gly Ala Leu Gln
1 5 10 15

Asp Leu Met Asn Met Leu Glu Leu Asp Ser Ser Gly His Leu Asp Gly
20 25 30

Pro Gly Gly Ala Ile Leu Lys Lys Leu Gln Gln Asp Ser Asn His Ala
35 40 45

Trp Phe Asn Pro Lys Asp Pro Ile Leu Tyr Leu Leu Glu Ala Ile Met
50 55 60

Val Leu Ser Asp Phe Gln His Asp Leu Leu Ala Cys Ser Met Glu Lys
65 70 75 80

Arg Ile Leu Leu Gln Gln Gln Glu Leu Val Arg Ser Ile Leu Glu Pro
85 90 95

Asn Phe Arg Tyr Pro Trp Ser Ile Pro Phe Thr Leu Lys Pro Glu Leu
100 105 110

Leu Ala Pro Leu Gln Ser Glu Gly Leu Ala Ser Pro Met Ala Ala Gly
115 120 125

Gly Val Trp Pro
130

<210> 199
<211> 226
<212> PRT
<213> Homo sapien

<400> 199

Pro Pro Lys His Leu Lys Ser Lys Phe Gly Gly Met Arg Lys Ala Asp
1 5 10 15

Asp Asp Leu Ile Leu Leu Leu Gly Arg Ile Glu Glu Pro Phe Trp Gln
20 25 30

```
Asn Phe Lys His Leu Gln Glu Glu Val Phe Gln Lys Ile Lys Thr Leu
        35                  40                  45

Ala Gln Leu Ser Lys Asp Val Gln Asp Val Met Phe Tyr Ser Ile Leu
    50                  55                  60

Ala Met Leu Arg Asp Arg Gly Ala Leu Gln Asp Leu Met Asn Met Leu
65                  70                  75                  80

Glu Leu Asp Ser Ser Gly His Leu Asp Gly Pro Gly Gly Ala Ile Leu
                85                  90                  95

Lys Lys Leu Gln Gln Asp Ser Asn His Ala Trp Phe Asn Pro Lys Asp
            100                 105                 110

Pro Ile Leu Tyr Leu Leu Glu Ala Ile Met Val Leu Ser Asp Phe Gln
        115                 120                 125

His Asp Leu Leu Ala Cys Ser Met Glu Lys Arg Ile Leu Leu Gln Gln
    130                 135                 140

Gln Glu Leu Val Arg Ser Ile Leu Glu Pro Asn Phe Arg Tyr Pro Trp
145                 150                 155                 160

Ser Ile Pro Phe Thr Leu Lys Pro Glu Leu Leu Ala Pro Leu Gln Ser
                165                 170                 175

Glu Gly Leu Ala Ile Thr Tyr Gly Leu Leu Glu Glu Cys Gly Leu Arg
            180                 185                 190

Thr Glu Leu Asp Asn Pro Arg Ser Thr Trp Asp Val Glu Ala Lys Met
        195                 200                 205

Pro Leu Ser Ala Leu Tyr Gly Thr Leu Ser Leu Leu Gln Gln Leu Ala
    210                 215                 220

Glu Ala
225
```

<210> 200
<211> 37
<212> PRT
<213> Homo sapien

<400> 200

Met Ala Lys His Lys Gly Gly Tyr Gly Lys Tyr Trp Val Thr Leu Ile
1 5 10 15

Ile Gly Leu Asn Ala Thr Asn Asn Ile Ile Ile Val Leu Thr Tyr Phe
20 25 30

Phe Arg Leu Leu Ser
35

<210> 201
<211> 28
<212> PRT
<213> Homo sapien

<400> 201

Met Val His Lys Ser Tyr Phe Thr Thr Leu Ser Leu Val Ile Leu Gly
1 5 10 15

Val Trp Pro Cys Lys Ala Ser Ser Gln Arg Phe Cys
20 25

<210> 202
<211> 77
<212> PRT
<213> Homo sapien

<400> 202

Met Gly Ser Val Cys Val Cys Phe His Arg Ser Thr Thr Ser Glu Val
1 5 10 15

Ser Leu His Leu Cys Ile Phe Thr Ser Gln Gly Gln Gly Pro Gly Asn
20 25 30

Leu Arg Gly Ser His Ser Phe Ser Leu Pro Gln Thr Met Pro Leu Pro
35 40 45

Pro Ile Ser Leu Gly Gln Glu Ser Gly Phe Cys Phe Pro Tyr Phe Phe
50 55 60

Phe Pro Arg His Trp Glu Ala Ser Gly Glu Gln His Gln
65 70 75

<210> 203
<211> 70
<212> PRT

<213> Homo sapien

<400> 203

Met Gly Pro Pro Leu Pro Leu Gly Gly Trp Ser Ser Asp Leu Leu Ala
1 5 10 15

Gln Lys Val Leu Phe Phe His Leu Leu Cys Leu Asn Glu Ser Ser Trp
20 25 30

Thr Tyr Thr Pro Leu Ser Asp Glu Arg Ala Arg Leu Arg Arg Cys Ala
35 40 45

Gly His Leu Leu Arg Ile His Val Gly Ser Ala Ala Pro Gly Gly Gly
50 55 60

Ser Thr Ser Ala Ala Thr
65 70

<210> 204
<211> 37
<212> PRT
<213> Homo sapien

<400> 204

Met Ser Lys Lys Lys Asp Gln Asp Leu Cys Leu Lys Ile Glu Met His
1 5 10 15

Thr Ala Ala Ala Gln Lys Leu Arg Pro Ala Ser Lys Leu His Glu Ala
20 25 30

Leu Val Lys Thr Asp
35

<210> 205
<211> 87
<212> PRT
<213> Homo sapien

<400> 205

Met Pro Ser Val Ala Gln Gly Pro Val Pro Trp His Leu Gly Ser Arg
1 5 10 15

Ser Ala Val Ala Val Phe Glu Phe Leu Val Met Phe Glu Gln Arg Pro
20 25 30

Tyr Val Cys Ile Leu His Trp Ala Pro Gln Ile Thr Trp Pro Ile Leu

35 40 45

Arg Arg Gly Val Ser His Leu Gln Ser Pro Lys Ser Pro Leu Glu Val
50 55 60

Phe Leu Asn Glu Arg Thr Glu Ala Phe Leu Lys Ser Ser Val Gly Glu
65 70 75 80

Thr Val His His His Thr Gln
85

<210> 206
<211> 46
<212> PRT
<213> Homo sapien

<400> 206

Met Ser Pro Gly Thr Ala Met Ala Leu Gly Ala Pro Thr Leu Phe Phe
1 5 10 15

Phe Phe Phe Phe Phe Phe Phe Tyr Asn Gln Pro Ile Arg Asp Leu Ser
20 25 30

Ile Asn Lys Pro Leu Phe Ile Ile Arg Asn Trp Leu Thr Gln
35 40 45

<210> 207
<211> 91
<212> PRT
<213> Homo sapien

<400> 207

Met Ser Ser Pro Gln Ser Ile Glu His Asn His Asp Ser His Glu Leu
1 5 10 15

Pro Thr Pro Pro Ala Ala Ser Ala Gln Arg Glu Ser Pro Leu Gln Val
20 25 30

Cys Leu Ile Ala Glu Pro Ile Phe Phe Leu Pro Gly Gln Gln Leu Leu
35 40 45

Ser Ser Met Ser Arg His Trp Cys Ser Leu Gly Trp Ala Pro Val Thr
50 55 60

Pro Met Glu Ile Leu Asp Gly Cys Tyr Arg Thr Gly Leu Asp Val Arg
65 70 75 80

Gly Leu Gly Asn Gly Ala Gln Glu Ser Ser Ser
85 90

<210> 208
<211> 87
<212> PRT
<213> Homo sapien

<400> 208

Met Cys Val Arg Asn Ser Met Phe Lys Lys Glu Ile Ile Gln Arg Val
1 5 10 15

Thr Asn His Gly Ser Val Gly His Trp Thr Lys Leu Gly Phe Trp Thr
20 25 30

Phe Leu Pro Asn Ile Asn Phe Ala Leu Ala Ser Val Tyr Thr His Thr
35 40 45

His Thr Thr Thr Asn Thr Thr Gln Thr Thr Phe Trp Ala Asn Thr Thr
50 55 60

Arg Arg Gln Arg Arg Leu Pro Gly Leu Lys Leu Gly Ser Leu Pro Ala
65 70 75 80

Pro Gln Phe Ser Gln Gln Leu
85

<210> 209
<211> 55
<212> PRT
<213> Homo sapien

<400> 209

Met Thr Cys Phe Arg Glu Cys Leu Leu Val Tyr Leu Tyr Ser Ile Cys
1 5 10 15

Leu Leu Asn Ser Leu His Lys Leu Glu Leu Leu Ser Arg Arg Leu Arg
20 25 30

Glu Cys Lys Tyr Val Thr His Lys Met His Trp Ser Met Val Asn Lys
35 40 45

Thr Asn His Phe Gly Leu Val
50 55

<210> 210
<211> 58
<212> PRT
<213> Homo sapien

<400> 210

Met Val Ile Phe Tyr Ser Ser Pro Ser Gln Asp Ser Ala Leu Ile Tyr
1 5 10 15

Tyr Ile Pro Phe Ile Leu Leu Tyr Arg Leu Leu Ser Glu Thr His Val
20 25 30

Gln Ile Arg Asp Lys Ile Leu Lys His Ile Thr Pro Ser Leu Val Phe
35 40 45

Ser Ile Gln Ile Leu Arg Asn Ser Cys Tyr
50 55

<210> 211
<211> 37
<212> PRT
<213> Homo sapien

<400> 211

Met Asn Leu Tyr Leu Lys Met Lys Thr Ile Pro Lys Lys Thr Cys Met
1 5 10 15

Ser Lys Thr Glu Leu Phe Leu Pro Phe Thr Pro Lys Tyr Leu Lys Leu
20 25 30

Asn Leu Ser His Phe
35

<210> 212
<211> 99
<212> PRT
<213> Homo sapien

<400> 212

Phe Phe Phe Phe Leu Arg Trp Ser Leu Ala Leu Ser Pro Arg Leu Glu
1 5 10 15

Cys Ser Gly Val Ile Ser Thr His Cys Asn Leu Cys Phe Pro Gly Ser
20 25 30

Ser Asp Ser Arg Ala Ser Pro Thr Phe Gln Val Ala Trp Ile Thr Gly

35 40 45

Val Arg His His Ser Trp Leu Ile Phe Val Leu Leu Val Glu Thr Gly
50 55 60

Phe His His Val Val Gln Ala Val Glu Leu Leu Thr Ser Arg Asp Pro
65 70 75 80

Pro Ala Ser Ala Ser Gln Ser Ala Ala Ile Ile Gly Val Asn His Cys
85 90 95

Ala Arg Pro

<210> 213
<211> 43
<212> PRT
<213> Homo sapien

<400> 213

Met Gln Glu Phe Thr Trp Leu Phe Glu Lys Glu Asn Phe Lys Val Ser
1 5 10 15

Gly Trp Thr Glu Ser His Glu Ala Arg Ser Leu Leu Thr Ala Arg Ser
20 25 30

Leu Glu Lys Gln Val Ser Gly Ser Phe Thr Ser
35 40

<210> 214
<211> 61
<212> PRT
<213> Homo sapien

<400> 214

Met Ala Val Asp Phe Tyr Asn Phe Val Thr Lys Leu Val Val Thr Thr
1 5 10 15

Gly Tyr Leu Arg Ile Ser Phe Leu Ala Tyr Lys Phe Phe Ser Phe Pro
20 25 30

Phe Leu Asp Ser Leu Ser Leu Cys Cys Pro Gly Leu Glu Cys Ser Gly
35 40 45

Val Ile Pro Ala His Tyr Asn Leu Tyr Leu Pro Gly Arg
50 55 60

<210> 215
<211> 127
<212> PRT
<213> Homo sapien

<400> 215

Ser Gln Asn Ile Phe Phe Gly Val Ala Ile Phe Phe Phe Ser Phe Phe
1 5 10 15

Arg Gln Ser Leu Ser Leu Val Ala Gln Ala Arg Val Gln Trp Arg Asp
20 25 30

Pro Gly Ser Leu Gln Pro Leu Pro Pro Gly Phe Lys Arg Phe Leu Gly
35 40 45

Leu Ser Leu Pro Ser Ser Ala Gly Tyr Arg Arg Ala Pro Pro Pro Cys
50 55 60

Pro Ala Leu Leu Tyr Phe Ala Val Glu Thr Gly Phe His His Val Gly
65 70 75 80

Gln Ala Gly Leu Glu Leu Leu Thr Ser Gly Asn Pro Ala Ala Ser Ala
85 90 95

Ser Gln Ser Ala Gly Ile Thr Gly Thr Ser His Cys Thr Gln Pro Tyr
100 105 110

Tyr His Lys Ser Ser Ala Cys Trp Tyr Leu Ile Arg Phe Tyr Leu
115 120 125

<210> 216
<211> 13
<212> PRT
<213> Homo sapien

<400> 216

Met Glu Cys Ser Ser Leu Ala Glu Phe Lys Pro Val Phe
1 5 10

<210> 217
<211> 100
<212> PRT
<213> Homo sapien

<400> 217

Pro Gln Gln Thr Leu Lys Arg Ile Gln Gln Val Leu Ile Lys Cys Cys
1 5 10 15

Leu Ala Phe Tyr Leu Phe Leu Phe Phe Phe Phe Leu Arg Trp Ser Leu
20 25 30

Ala Leu Leu Pro Ser Leu Lys Cys Ser Gly Val Ile Ser Ala His Cys
35 40 45

Asn Leu Arg Leu Pro Gly Leu Gly Asp Ser Leu Ala Ser Ala Ser Arg
50 55 60

Val Ala Gly Met Thr Thr Gly Thr Cys His His Ala Gln Leu Ile Phe
65 70 75 80

Val Phe Leu Val Glu Thr Gly Phe Cys Val Ser Gln Asp Gly Leu Asp
85 90 95

Leu Leu Ile Ser
100

<210> 218
<211> 46
<212> PRT
<213> Homo sapien

<400> 218

Met Glu Gly Gly Glu Met Ser Thr Gln Val Glu Asn Arg Ser Glu Gly
1 5 10 15

Thr Ile Pro Ile Gln Thr Thr Cys Lys Ser His Asn Lys Ala Pro His
20 25 30

Cys Thr Glu Leu Arg His Lys Gln Arg Phe Pro Thr Asp Gly
35 40 45

<210> 219
<211> 72
<212> PRT
<213> Homo sapien

<400> 219

Ile Ser Phe Ile Phe Phe Ser Glu Ala Cys Gln Val Glu Val Arg Leu
1 5 10 15

Leu Leu Ala Tyr Asn Ser Ser Ala Arg Ile Pro Lys Cys Pro Trp Met

20 25 30

Glu Gly Gly Glu Met Ser Pro Gln Val Glu Thr Ser Ile Glu Gly Thr
35 40 45

Ile Pro Phe Ser Lys Pro Val Lys Val Tyr Ile Met Pro Lys Pro Ala
50 55 60

Arg Arg Pro Lys Pro Ala Arg Arg
65 70

<210> 220
<211> 41
<212> PRT
<213> Homo sapien

<400> 220

Met Glu Cys Lys Val Ile Lys Cys Ser Cys Phe His Leu Glu Gly Cys
1 5 10 15

Gly Pro Glu Gly Lys Arg Ser Pro Lys Tyr Pro Pro Pro Trp Cys Ser
20 25 30

Ser Leu Cys Leu Val Pro Ala Arg Ala
35 40

<210> 221
<211> 30
<212> PRT
<213> Homo sapien

<400> 221

Met Asn Ser Phe Gly Tyr Met Thr Pro Ser Lys Phe Phe Lys Lys Glu
1 5 10 15

Ile Thr Phe Lys Thr Thr Tyr Ile Phe Cys Phe Cys Leu Arg
20 25 30

<210> 222
<211> 22
<212> PRT
<213> Homo sapien

<400> 222

Met Leu Gln Ile Gly His Leu Leu Ser Met His Ser Leu Asp Lys Asn
1 5 10 15

Ile Gly Gln Val Gly Met
20

<210> 223
<211> 18
<212> PRT
<213> Homo sapien

<400> 223

Met Ser Asp Arg Val Val Ala Leu Leu Glu Val Phe Phe Pro Phe Gln
1 5 10 15

Arg Glu

<210> 224
<211> 133
<212> PRT
<213> Homo sapien

<400> 224

Met Gly Asn Ser Ile Asp Thr Val Arg Tyr Gly Lys Glu Ser Asp Leu
1 5 10 15

Gly Asp Val Ser Glu Glu His Gly Glu Trp Asn Lys Glu Ser Ser Asn
20 25 30

Asn Glu Gln Asp Asn Ser Leu Leu Glu Gln Tyr Leu Thr Ser Val Gln
35 40 45

Gln Leu Glu Asp Ala Asp Glu Arg Thr Asn Phe Asp Thr Glu Thr Arg
50 55 60

Asp Ser Lys Leu His Ile Ala Cys Phe Pro Val Gln Leu Asp Thr Leu
65 70 75 80

Ser Asp Gly Ala Ser Val Asp Glu Ser His Gly Ile Ser Pro Pro Leu
85 90 95

Gln Gly Glu Ile Ser Gln Thr Gln Glu Asn Ser Lys Leu Asn Ala Glu
100 105 110

Val Gln Gly Gln Gln Pro Glu Cys Asp Ser Thr Phe Gln Leu Leu His
115 120 125

Val Gly Val Thr Val
130

<210> 225
<211> 50
<212> PRT
<213> Homo sapien

<400> 225

Met Arg Asn Ser Ser Pro Ile Leu Thr Pro Ala Leu Phe Ser Phe His
1 5 10 15

Met Tyr Ile Gly Pro Leu Ile Arg Ile Phe Lys Lys Phe Pro Arg Pro
20 25 30

Pro Asn Leu Thr Ile Asp Asp Pro Leu Ser Leu Phe Arg Arg Asn Tyr
35 40 45

Ile Gly
50

<210> 226
<211> 43
<212> PRT
<213> Homo sapien

<400> 226

Met His Ser Phe Phe Leu Ser Met Leu Cys Pro Glu Ala Leu Arg Val
1 5 10 15

Leu Leu Lys Gln Ala Ala Gly Leu Leu Arg Glu Ile Lys Gly Phe Ile
20 25 30

Ser Thr Thr Arg Cys Gln Asn Leu His Phe Glu
35 40

<210> 227
<211> 99
<212> PRT
<213> Homo sapien

<400> 227

Met Leu Glu Arg Arg Ser Val Met Asp Arg Arg Arg Ala Gly Asn Ser
1 5 10 15

Pro Pro Arg Ile Glu Lys Cys Leu Leu Gly Arg Glu Glu Gly Glu Ala
20 25 30

Gly Ala Gly Pro Ser Pro Gly Ser Leu Leu Gly Pro Gln Lys Ala Leu
35 40 45

Asn Gln Ala Pro Ser Leu Gln Gly Lys Pro Arg Pro Gln Pro Asp Asn
50 55 60

Leu Glu Gly Arg Lys Ser Gln Thr Leu Gly Leu Phe Phe Gly Gly Ile
65 70 75 80

Ile Gly Phe Phe Phe Phe Met Phe Leu Leu Glu Phe Cys Leu Leu Ala
85 90 95

Asn Ser Val

<210> 228
<211> 44
<212> PRT
<213> Homo sapien

<400> 228

Met Lys Ser Ile Gln Leu Lys Phe Ser Tyr Ile Ile Glu Pro Gln Leu
1 5 10 15

Asn Gly Met Asn Gly Ile Gly Asn Leu Leu Glu Met Ile Phe Met Ile
20 25 30

Thr Phe Val Val Ile Pro Phe Ser Trp Leu Arg Phe
35 40

<210> 229
<211> 41
<212> PRT
<213> Homo sapien

<400> 229

Tyr Phe Pro Leu Gln Ile Trp Ile Ser Glu Asp Ser Asn Asn Ile Glu
1 5 10 15

Ala Val Asn Gln Trp Lys Glu Thr Val Ile Asn Pro Glu Lys Val Val
20 25 30

Ile Arg Trp His Lys Leu Asn Pro Ser
35 40

<210> 230
<211> 48
<212> PRT
<213> Homo sapien

<400> 230

Met Leu Lys Gly His Tyr Gln Tyr Gly Met Glu Asp Leu Ser Phe His
1 5 10 15

Thr Phe Ser Ser Ser Phe Leu Asn Phe Leu Leu Leu Phe Leu Leu Ser
20 25 30

Cys Met Val Ala Pro Phe Pro Phe Leu Leu Ser Val Pro Ser Lys Gln
35 40 45

<210> 231
<211> 108
<212> PRT
<213> Homo sapien

<400> 231

Phe Leu Lys Arg Gln Ser Ile Ser Leu Leu Pro Gln Leu Glu Cys Ser
1 5 10 15

Gly Thr Ile Ile Val His His Thr Leu Glu Leu Leu Gly Lys Gly Ser
20 25 30

Ser Leu Ala Ser Ala Ser Gln Val Ala Arg Tyr Thr Gly Met Cys Tyr
35 40 45

His Ala Trp Leu Ile Lys Lys Ile Phe Leu Glu Met Arg Ser Cys Cys
50 55 60

Val Ala Gln Ala Gly Leu Lys Leu Leu Gly Ser Asn Asn Pro Pro Thr
65 70 75 80

Leu Ala Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His Ser Thr Ala
85 90 95

Pro Tyr Leu Gln Ile Leu Asn Gln Ala Ile Ala Ile
100 105

<210> 232
<211> 64
<212> PRT
<213> Homo sapien

<400> 232

Met Ser Pro Arg Ala Pro Phe Ala Pro Gly Cys Pro Gln Pro Leu Val
1 5 10 15

Val Phe Tyr Val Cys Phe Phe Phe Phe Leu Ile Phe Cys Phe Val Lys
20 25 30

Lys His His Tyr Met Phe Leu Tyr Pro Arg Leu Lys Thr Phe Gly Asn
35 40 45

Leu Ile Ser Asn Ile Lys Ile Gln Ile Lys Thr His Ser Thr Ile Pro
50 55 60

<210> 233
<211> 35
<212> PRT
<213> Homo sapien

<400> 233

Met Cys Val Asn Ala Ser Thr Val Gly Gln Met Cys Glu Asn Glu Leu
1 5 10 15

Lys His Met Leu Arg Ile Lys Val Asn Arg Arg Asn Phe Glu Arg Phe
20 25 30

Pro Leu Met
35

<210> 234
<211> 72
<212> PRT
<213> Homo sapien

<400> 234

Met Asn Ile Phe Pro Trp Ala Gly Gly Pro Trp Ser Leu Pro Gln Ala
1 5 10 15

Arg Tyr Arg Ala Pro Ala Cys Ala Pro Thr Asn His Gly Lys Gln Arg
20 25 30

Arg Pro Pro His Leu Lys Ser Trp Pro Val Val Val Ser Ser Val Phe
35 40 45

Leu Leu Ser Glu Gln Asn Val Leu Lys Leu Glu Leu Thr Lys Val Lys
50 55 60

Ser Ser Lys Thr Thr Tyr Ala Thr
65 70

<210> 235
<211> 1163
<212> PRT
<213> Homo sapien

<400> 235

Met Asp Arg Asn Arg Glu Ala Glu Met Glu Leu Arg Arg Gly Pro Ser
1 5 10 15

Pro Thr Arg Ala Gly Arg Gly His Glu Val Asp Gly Asp Lys Ala Thr
20 25 30

Cys His Thr Cys Cys Ile Cys Gly Lys Ser Phe Pro Phe Gln Ser Ser
35 40 45

Leu Ser Gln His Met Arg Lys His Thr Gly Glu Lys Pro Tyr Lys Cys
50 55 60

Pro Tyr Cys Asp His Arg Ala Ser Gln Lys Gly Asn Leu Lys Ile His
65 70 75 80

Ile Arg Ser His Arg Thr Gly Thr Leu Ile Gln Gly His Glu Pro Glu
85 90 95

Ala Gly Glu Ala Pro Leu Gly Glu Met Arg Ala Ser Glu Gly Leu Asp
100 105 110

Ala Cys Ala Ser Pro Thr Lys Ser Ala Ser Ala Cys Asn Arg Leu Leu
115 120 125

Asn Gly Ala Ser Gln Ala Asp Gly Ala Arg Val Leu Asn Gly Ala Ser
130 135 140

Gln Ala Asp Ser Gly Arg Val Leu Leu Arg Ser Ser Lys Lys Gly Ala
145 150 155 160

Glu Gly Ser Ala Cys Ala Pro Gly Glu Ala Lys Ala Ala Val Gln Cys
165 170 175

Ser Phe Cys Lys Ser Gln Phe Glu Arg Lys Lys Asp Leu Glu Leu His
180 185 190

Val His Gln Ala His Lys Pro Phe Lys Cys Arg Leu Cys Ser Tyr Ala
195 200 205

Thr Leu Arg Glu Glu Ser Leu Leu Ser His Ile Glu Arg Asp His Ile
210 215 220

Thr Ala Gln Gly Pro Gly Ser Gly Glu Ala Cys Val Glu Asn Gly Lys
225 230 235 240

Pro Glu Leu Ser Pro Gly Glu Phe Pro Cys Glu Val Cys Gly Gln Ala
245 250 255

Phe Ser Gln Thr Trp Phe Leu Lys Ala His Met Lys Lys His Arg Gly
260 265 270

Ser Phe Asp His Gly Cys His Ile Cys Gly Arg Arg Phe Lys Glu Pro
275 280 285

Trp Phe Leu Lys Asn His Met Lys Ala His Gly Pro Lys Thr Gly Ser
290 295 300

Lys Asn Arg Pro Lys Ser Glu Leu Asp Pro Ile Ala Thr Ile Asn Asn
305 310 315 320

Val Val Gln Glu Glu Val Ile Val Ala Gly Leu Ser Leu Tyr Glu Val
325 330 335

Cys Ala Lys Cys Gly Asn Leu Phe Thr Asn Leu Asp Ser Leu Asn Ala
340 345 350

His Asn Ala Ile His Arg Arg Val Glu Ala Ser Arg Thr Arg Ala Pro
355 360 365

Ala Glu Glu Gly Ala Glu Gly Pro Ser Asp Thr Lys Gln Phe Phe Leu
370 375 380

Gln Cys Leu Asn Leu Arg Pro Ser Ala Ala Gly Asp Ser Cys Pro Gly
385 390 395 400

Thr Gln Ala Gly Arg Arg Val Ala Glu Leu Asp Pro Val Asn Ser Tyr
405 410 415

Gln Ala Trp Gln Leu Ala Thr Arg Gly Lys Val Ala Glu Pro Ala Glu

420 425 430

Tyr Leu Lys Tyr Gly Ala Trp Asp Glu Ala Leu Ala Gly Asp Val Ala
435 440 445

Phe Asp Lys Asp Arg Arg Glu Tyr Val Leu Val Ser Gln Glu Lys Arg
450 455 460

Lys Arg Glu Gln Asp Ala Pro Ala Ala Gln Gly Pro Pro Arg Lys Arg
465 470 475 480

Ala Ser Gly Pro Gly Asp Pro Ala Pro Ala Gly His Leu Asp Pro Arg
485 490 495

Ser Ala Ala Arg Pro Asn Arg Arg Ala Ala Ala Thr Thr Gly Gln Gly
500 505 510

Lys Ser Ser Glu Cys Phe Glu Cys Gly Lys Ile Phe Arg Thr Tyr His
515 520 525

Gln Met Val Leu His Ser Arg Val His Arg Arg Ala Arg Arg Glu Arg
530 535 540

Asp Ser Asp Gly Asp Arg Ala Ala Arg Ala Arg Cys Gly Ser Leu Ser
545 550 555 560

Glu Gly Asp Ser Ala Ser Gln Pro Ser Ser Pro Gly Ser Ala Cys Ala
565 570 575

Ala Ala Asp Ser Pro Gly Ser Gly Leu Ala Asp Glu Ala Ala Glu Asp
580 585 590

Ser Gly Glu Glu Gly Ala Pro Glu Pro Ala Pro Gly Gly Gln Pro Arg
595 600 605

Arg Cys Cys Phe Ser Glu Glu Val Thr Ser Thr Glu Leu Ser Ser Gly
610 615 620

Asp Gln Ser His Lys Met Gly Asp Asn Ala Ser Glu Arg Asp Thr Gly
625 630 635 640

Glu Ser Lys Ala Gly Ile Ala Ala Ser Val Ser Ile Leu Glu Asn Ser
645 650 655

Ser Arg Glu Thr Ser Arg Arg Gln Glu Gln His Arg Phe Ser Met Asp
660 665 670

Leu Lys Met Pro Ala Phe His Pro Lys Gln Glu Val Pro Val Pro Gly
675 680 685

Asp Gly Val Glu Phe Pro Ser Ser Thr Gly Ala Glu Gly Gln Thr Gly
690 695 700

His Pro Ala Glu Lys Leu Ser Asp Leu His Asn Lys Glu His Ser Gly
705 710 715 720

Gly Gly Lys Arg Ala Leu Ala Pro Asp Leu Met Pro Leu Asp Leu Ser
725 730 735

Ala Arg Ser Thr Arg Asp Asp Pro Ser Asn Lys Glu Thr Ala Ser Ser
740 745 750

Leu Gln Ala Ala Leu Val Val His Pro Cys Pro Tyr Cys Ser His Lys
755 760 765

Thr Tyr Tyr Pro Glu Val Leu Trp Met His Lys Arg Ile Trp His Arg
770 775 780

Val Ser Cys Asn Ser Val Ala Pro Pro Trp Ile Gln Pro Asn Gly Tyr
785 790 795 800

Lys Ser Ile Arg Ser Asn Leu Val Phe Leu Ser Arg Ser Gly Arg Thr
805 810 815

Gly Pro Pro Pro Ala Leu Gly Gly Lys Glu Cys Gln Pro Leu Leu Leu
820 825 830

Ala Arg Phe Thr Arg Thr Gln Val Pro Gly Gly Met Pro Gly Ser Lys
835 840 845

Ser Gly Ser Ser Pro Leu Gly Val Val Thr Lys Ala Ala Ser Met Pro
850 855 860

Lys Asn Lys Glu Ser His Ser Gly Gly Pro Cys Ala Leu Trp Ala Pro
865 870 875 880

Gly Pro Asp Gly Tyr Arg Gln Thr Lys Pro Cys His Gly Gln Glu Pro
885 890 895

```
His Gly Ala Ala Thr Gln Gly Pro Leu Ala Lys Pro Arg Gln Glu Ala
            900                 905                 910

Ser Ser Lys Pro Val Pro Ala Pro Gly Gly Gly Gly Phe Ser Arg Ser
        915                 920                 925

Ala Thr Pro Thr Pro Thr Val Ile Ala Arg Ala Gly Ala Gln Pro Ser
    930                 935                 940

Ala Asn Ser Lys Pro Val Glu Lys Phe Gly Val Pro Pro Ala Gly Ala
945                 950                 955                 960

Gly Phe Ala Pro Thr Asn Lys His Ser Ala Pro Asp Ser Leu Lys Ala
                965                 970                 975

Lys Phe Ser Ala Gln Pro Gln Gly Pro Pro Pro Ala Lys Gly Glu Gly
            980                 985                 990

Gly Ala Pro Pro Leu Pro Pro Arg  Glu Pro Pro Ser Lys  Ala Ala Gln
        995                 1000                1005

Glu Leu  Arg Thr Leu Ala Thr  Cys Ala Ala Gly Ser  Arg Gly Asp
    1010                1015                1020

Ala Ala  Leu Gln Ala Gln Pro  Gly Val Ala Gly Ala  Pro Pro Val
    1025                1030                1035

Leu His  Ser Ile Lys Gln Glu  Pro Val Ala Glu Gly  His Glu Lys
    1040                1045                1050

Arg Leu  Asp Ile Leu Asn Ile  Phe Lys Thr Tyr Ile  Pro Lys Asp
    1055                1060                1065

Phe Ala  Thr Leu Tyr Gln Gly  Trp Gly Val Ser Gly  Pro Gly Leu
    1070                1075                1080

Glu His  Arg Gly Thr Leu Arg  Thr Gln Ala Arg Pro  Gly Glu Phe
    1085                1090                1095

Val Cys  Ile Glu Cys Gly Lys  Ser Phe His Gln Pro  Gly His Leu
    1100                1105                1110

Arg Ala  His Met Arg Ala His  Ser Val Val Phe Glu  Ser Asp Gly
    1115                1120                1125
```

```
Pro Arg  Gly Ser Glu Val His  Thr Thr Ser Ala Asp  Ala Pro Lys
    1130                 1135                 1140

Gln Gly  Arg Asp His Ser Asn  Thr Gly Thr Val Gln  Thr Val Pro
    1145                 1150                 1155

Leu Arg  Lys Gly Thr
    1160
```

<210> 236
<211> 55
<212> PRT
<213> Homo sapien

<400> 236

```
Met Cys Val Phe Cys Gly Phe Phe Cys Ser Arg Phe Val Arg Glu Met
1               5                  10                  15

Trp Gly Asn Phe Gly Pro Lys Thr Asn Phe Thr Pro Gly Thr Pro Phe
            20                  25                  30

Cys Pro Trp Leu Ser Pro Asn Leu Phe Cys Leu Val Val Val Trp Phe
        35                  40                  45

Tyr Arg Leu Leu Ile Phe Tyr
    50                  55
```

<210> 237
<211> 156
<212> PRT
<213> Homo sapien

<400> 237

```
Met Pro Met Glu Gly His Thr Leu Cys Met Arg Ile Arg Gly Ser Trp
1               5                  10                  15

Leu Ala Ala Arg Leu Pro Val Met Pro Phe Glu Gly Asp Val Gly Pro
            20                  25                  30

Trp Val Arg Met Lys Val Phe Ile Cys His Ser Ser Ser Pro Gln Val
        35                  40                  45

Ala Ile His Leu Gly Gly Gly Arg Glu Gly Ser Ala Leu Ala Ile Val
    50                  55                  60
```

```
Tyr Pro Ala Ser Leu Arg Phe Ile Asp Leu His Lys Arg Leu Cys Ser
65                  70                  75                  80

Gly Lys Gly Arg Gly Pro Gln Lys Gly Ala Trp Gln Asp Arg Trp Met
                85                  90                  95

Leu Tyr Gly His Met Glu Ile Thr Pro Ser Ser Leu Ala Pro Ala Ser
            100                 105                 110

Ala Ser Arg Pro Leu His Gly Val Arg Cys Phe Cys Ala Cys Cys Pro
        115                 120                 125

Thr Ser Leu His Ser Arg Ala Leu Ile Asn His Phe Asp Pro Pro Leu
    130                 135                 140

Ala Glu Gly Ser Pro Leu Tyr Arg Val Gln Ser Leu
145                 150                 155

<210>  238
<211>  86
<212>  PRT
<213>  Homo sapien

<400>  238

Met Met Asn Phe Leu Cys Leu Asn Phe Arg Asp Ile Trp Cys Asp Phe
1               5                   10                  15

His Leu Tyr Leu Met Leu Pro Leu Leu Pro Ser Leu Leu Asn Thr Ser
            20                  25                  30

Lys Asn Ser Glu His Ile Leu Ile Pro Pro Val Phe Tyr Phe Tyr Asp
        35                  40                  45

Leu Asp Ile Leu His His Lys Ile Pro Pro Asn Trp Asp Tyr Val Phe
    50                  55                  60

Glu Val Ile His Phe Thr Ile Ile Thr Thr Ile Thr Ile Ile Phe Ile
65                  70                  75                  80

Val Cys Phe Val Pro Gly
                85

<210>  239
<211>  289
<212>  PRT
```

<213> Homo sapien

<400> 239

```
Ala Asp Leu Ser Phe Ile Glu Asp Thr Val Ala Phe Pro Glu Lys Glu
1               5                  10                  15

Glu Asp Glu Glu Glu Glu Glu Glu Gly Val Glu Trp Gly Tyr Glu Glu
            20                  25                  30

Gly Val Glu Trp Gly Leu Val Phe Pro Asp Ala Asn Gly Glu Tyr Gln
        35                  40                  45

Ser Pro Ile Asn Leu Asn Ser Arg Glu Ala Arg Tyr Asp Pro Ser Leu
    50                  55                  60

Leu Asp Val Arg Leu Ser Pro Asn Tyr Val Val Cys Arg Asp Cys Glu
65                  70                  75                  80

Val Thr Asn Asp Gly His Thr Ile Gln Val Ile Leu Lys Ser Lys Ser
                85                  90                  95

Val Leu Ser Gly Gly Pro Leu Pro Gln Gly His Glu Phe Glu Leu Tyr
            100                 105                 110

Glu Val Arg Phe His Trp Gly Arg Glu Asn Gln Arg Gly Ser Glu His
        115                 120                 125

Thr Val Asn Phe Lys Ala Phe Pro Met Glu Leu His Leu Ile His Trp
    130                 135                 140

Asn Ser Thr Leu Phe Gly Ser Ile Asp Glu Ala Val Gly Lys Pro His
145                 150                 155                 160

Gly Ile Ala Ile Ile Ala Leu Phe Val Gln Ile Gly Lys Glu His Val
                165                 170                 175

Gly Leu Lys Ala Val Thr Glu Ile Leu Gln Asp Ile Gln Tyr Lys Gly
            180                 185                 190

Lys Ser Lys Thr Ile Pro Cys Phe Asn Pro Asn Thr Leu Leu Pro Asp
        195                 200                 205

Pro Leu Leu Arg Asp Tyr Trp Val Tyr Glu Gly Ser Leu Thr Ile Pro
    210                 215                 220
```

```
Pro Cys Ser Glu Gly Val Thr Trp Ile Leu Phe Arg Tyr Pro Leu Thr
225                 230                 235                 240

Ile Ser Gln Leu Gln Ile Glu Glu Phe Arg Arg Leu Arg Thr His Val
                245                 250                 255

Lys Gly Ala Glu Leu Val Glu Gly Cys Asp Gly Ile Leu Gly Asp Asn
            260                 265                 270

Phe Arg Pro Thr Gln Pro Leu Ser Asp Arg Val Ile Arg Ala Ala Phe
        275                 280                 285

Gln
```

<210> 240
<211> 59
<212> PRT
<213> Homo sapien

<400> 240

```
Met Cys Gln Ile Asp Arg Gln Asp Leu Val Leu Leu Lys Leu Val Ile
1               5                   10                  15

Tyr Cys Ser Arg His Leu Lys Gly Trp Arg Arg Ser Glu His Tyr Val
            20                  25                  30

Pro Ala Arg Ala Ser Ile Thr Leu Arg Arg Ser Thr Ser His Leu Val
        35                  40                  45

Ala Arg Ser Pro Asn Met Ser Ser Ser Gly Val
    50                  55
```

<210> 241
<211> 41
<212> PRT
<213> Homo sapien

<400> 241

```
Met Leu Leu Asn Gly Leu His Asn Pro Ala Leu Lys His Leu Arg Asp
1               5                   10                  15

Leu Cys Lys Thr Phe Pro Trp Ser Leu Cys Phe Ser His Ile Asn Gln
            20                  25                  30
```

Leu Ala Tyr Phe Ser His Ser Pro Ser
35 40

<210> 242
<211> 80
<212> PRT
<213> Homo sapien

<400> 242

Met Asn Cys Leu Tyr Pro Ser Pro Met Cys Phe Tyr Arg Ser Cys Leu
1 5 10 15

Val His Phe Val Ala Asp Leu Leu Gly Asp Phe Thr Glu Gly Lys Val
20 25 30

Ser Ser Lys Leu Tyr Asp Asp Phe Met Leu Ile Asp Leu Leu Ser Ser
35 40 45

Gly Ser Trp Glu Thr His Ser Ala Ile Ser Leu Leu Ser Tyr Phe Ser
50 55 60

Tyr Asp Ala Gln Pro Pro Lys Ala Thr Arg Glu Gln Tyr Arg Val Pro
65 70 75 80

<210> 243
<211> 45
<212> PRT
<213> Homo sapien

<400> 243

Glu Arg Pro Gly Met Leu Asp Phe Thr Gly Lys Ala Lys Trp Asp Ala
1 5 10 15

Trp Asn Glu Leu Lys Gly Thr Ser Lys Glu Asp Ala Met Lys Ala Tyr
20 25 30

Ile Asn Lys Val Glu Glu Leu Lys Lys Lys Tyr Gly Ile
35 40 45

<210> 244
<211> 24
<212> PRT
<213> Homo sapien

<400> 244

Met Cys Leu Asn Phe Ser Phe Asn Tyr Leu Ile Pro Phe Ala Gln Glu
1 5 10 15

Ile Thr Ile Ser Leu Phe Phe Phe
20

<210> 245
<211> 69
<212> PRT
<213> Homo sapien

<400> 245

Leu Phe Phe Gln Leu Phe Asp Thr Phe Cys Pro Arg Asp Tyr Tyr Leu
1 5 10 15

Ser Leu Phe Phe Phe Ser Phe Lys Thr Glu Cys Cys Ser Val Thr Gln
20 25 30

Val Gly Val Gln Trp His Asn Ser Ala Ser Leu Gln Pro Leu Pro Pro
35 40 45

Arg Leu Lys Arg Ser Ser His Leu Ser Leu Pro Ser Ser Trp Asp His
50 55 60

Arg His Ile Pro Pro
65

<210> 246
<211> 39
<212> PRT
<213> Homo sapien

<400> 246

Met Glu Thr Lys His His Ser His Lys Lys Ser Asn Ser Ile Leu Asn
1 5 10 15

His Trp Lys Val Thr Ile Pro Leu Tyr Ser Phe Pro Lys Leu Phe Val
20 25 30

Ala Lys Ser Tyr Arg Lys Glu
35

<210> 247
<211> 93
<212> PRT
<213> Homo sapien

<400> 247

Leu Leu Gln Ala Leu Lys Lys Ile Phe Phe Leu Asn Ser Leu Thr Leu
1 5 10 15

Ser Pro Arg Leu Glu Ala Ser Asn Val Ile Ser Ala His Cys Asn Leu
20 25 30

His Ser Arg Val Ala Gly Ile Thr Asp Met His His His Pro Gln Leu
35 40 45

Ile Phe Val Phe Leu Val Glu Thr Gly Phe Arg His Val Gly Gln Ala
50 55 60

Gly Leu Ala Leu Leu Ala Leu Arg Asp Pro Pro Pro Leu Ala Phe Gln
65 70 75 80

Ser Ala Gly Ile Thr Gly Val Ser His Cys Thr Trp Pro
85 90

<210> 248
<211> 51
<212> PRT
<213> Homo sapien

<400> 248

Met Phe Phe Phe Phe Val Phe Phe Phe Phe Leu Phe Ala Arg Phe Ser
1 5 10 15

Arg Asn Val Gly Asp Leu Trp Ala Gly Lys Pro Phe Pro Pro Gly His
20 25 30

Val Leu Pro Arg Tyr Pro His Leu Phe Phe Phe Phe Phe Phe Phe Cys
35 40 45

Phe Ile Thr
50

<210> 249
<211> 62
<212> PRT
<213> Homo sapien

<400> 249

Met Asn Phe Thr Leu Ala Ile Phe His Tyr Phe Ser Leu Ser Gln Met
1 5 10 15

Ser Val Leu Met Arg Gln Leu Ala Leu Thr Gly Ala Thr Leu Met Cys

20 25 30

His Leu Pro Thr Phe Asn Phe Trp Val Lys Ala Glu Arg Glu Lys Leu
35 40 45

Met Asp Phe Ser Phe Ser Arg Arg Asp Lys Asn Gln Leu His
50 55 60

<210> 250
<211> 190
<212> PRT
<213> Homo sapien

<400> 250

Met Lys Leu Gln Leu Arg Ile Lys Ser Leu Thr Gln Asn Arg Thr Thr
1 5 10 15

Thr Trp Lys Leu Asn Asn Leu Leu Leu Asn Asp Tyr Trp Val Asn Lys
20 25 30

Lys Ile Lys Ala Glu Ile Asn Lys Phe Phe Glu Thr Ile Glu Asn Lys
35 40 45

Asp Thr Met Tyr Gln Asn Thr Ala Lys Ala Val Phe Arg Gly Lys Phe
50 55 60

Ile Ala Leu Asn Thr His Ile Arg Asn Trp Glu Ile Pro Lys Ile Asn
65 70 75 80

Val Leu Thr Ser Gln Leu Lys Glu Leu Glu Lys Arg Glu Gln Thr His
85 90 95

Ser Lys Gln Glu Ile Thr Lys Ile Ile Ala Glu Leu Lys Glu Ile Glu
100 105 110

Thr Gln Lys Ala Leu Gln Lys Ile Ser Asp Ser Arg Ser Trp Phe Phe
115 120 125

Glu Lys Ile Asn Lys Thr Asp Arg Leu Leu Ala Arg Ile Ile Lys Lys
130 135 140

Lys Arg Glu Lys Asn Gln Ile Asp Thr Ile Lys Asn Asp Lys Gly Asp
145 150 155 160

Ile Thr Thr Asn Pro Thr Glu Ile Gln Thr Ala Ile Arg Glu Cys Tyr

165 170 175

Gln His Leu Tyr Ile Asn Lys Leu Glu Asn Leu Glu Glu Ile
180 185 190

<210> 251
<211> 132
<212> PRT
<213> Homo sapien

<400> 251

Met Pro Val Leu Ser Pro Pro Leu His Met Pro Tyr Pro Ala Ala Lys
1 5 10 15

Leu Asp Ser Val Leu Pro Asp Lys Thr Trp Tyr Trp His Leu Tyr Ala
20 25 30

Ser Val Cys Leu Pro Ser Thr Phe Lys Lys Pro Leu Gln Ser Ala Asp
35 40 45

Thr Lys Lys Gln Ser His Thr Cys Ser Lys Ser Ala Cys Phe Pro Leu
50 55 60

Ile Ser Ala Ser Cys Gln Arg His Cys Leu Thr Ser Ser Ser Leu Leu
65 70 75 80

Ser Ile Cys Val Pro His Lys Thr Leu Arg Asp Ser Ala Ser Tyr Val
85 90 95

Tyr Gly Leu Trp Val Phe Ile Ser Thr Val Pro Cys Leu Thr Leu Ser
100 105 110

Pro Cys Gly Glu Tyr Thr His Pro Thr Pro Thr Val Pro Cys Thr Ser
115 120 125

Val Ala Ala Gln
130

<210> 252
<211> 30
<212> PRT
<213> Homo sapien

<400> 252

Met Gln Phe Arg Ile His Ala Ser Phe Ser Val Lys Trp Arg Ser Tyr
1 5 10 15

Ser Phe Asn Ser Glu Asn Ser Gln Leu Asn Lys Gln Pro Leu
20 25 30

<210> 253
<211> 49
<212> PRT
<213> Homo sapien

<400> 253

Met Arg Val Val Trp Gly Trp Arg Cys Gly Cys Val Gly Val Leu Val
1 5 10 15

Leu Val Val Gly Gly Cys Val Glu Trp Ala Val Val Phe Gly Val Cys
20 25 30

Val Gly Cys Val Val Trp Val Gly Arg Trp Trp Cys Asp Val Val Val
35 40 45

Trp

<210> 254
<211> 54
<212> PRT
<213> Homo sapien

<400> 254

Met Lys Lys Ser Val Ser Cys Cys Ser Ser Leu Trp Val Ser Leu Ser
1 5 10 15

Lys Asp Glu Asn Ala Glu Val Gly Arg Gly Asp Ser Leu Leu Gly Thr
20 25 30

Gly Arg Cys Gly Leu Pro Ile Thr Arg Leu Lys Leu Thr Ser Leu Pro
35 40 45

Ser Ser Pro Thr Val Val
50

<210> 255
<211> 1088
<212> PRT
<213> Homo sapien

<400> 255

```
Asp Asp Ser Leu Ile Ser Ser Ala Thr Ala Ile Met Glu Ala Val Val
1               5                  10                  15

Arg Glu Trp Ile Leu Leu Glu Lys Gly Ser Ile Glu Ser Leu Arg Thr
            20                  25                  30

Phe Leu Leu Thr Tyr Val Leu Gln Arg Pro Asn Leu Gln Lys Tyr Val
        35                  40                  45

Arg Glu Gln Ile Leu Leu Ala Val Ala Val Ile Val Lys Arg Gly Ser
    50                  55                  60

Leu Asp Lys Ser Ile Asp Cys Lys Ser Ile Phe His Glu Val Ser Gln
65                  70                  75                  80

Leu Ile Ser Ser Gly Asn Pro Thr Val Gln Thr Leu Ala Cys Ser Ile
                85                  90                  95

Leu Thr Ala Leu Leu Ser Glu Phe Ser Ser Ser Ser Lys Thr Ser Asn
            100                 105                 110

Ile Gly Leu Ser Met Glu Phe His Gly Asn Cys Lys Arg Val Phe Gln
        115                 120                 125

Glu Glu Asp Leu Arg Gln Ile Phe Met Leu Thr Val Glu Val Leu Gln
    130                 135                 140

Glu Phe Ser Arg Arg Glu Asn Leu Asn Ala Gln Met Ser Ser Val Phe
145                 150                 155                 160

Gln Arg Tyr Leu Ala Leu Ala Asn Gln Val Leu Ser Trp Asn Phe Leu
                165                 170                 175

Pro Pro Asn Leu Gly Arg His Tyr Ile Ala Met Phe Glu Ser Ser Gln
            180                 185                 190

Asn Val Leu Leu Lys Pro Thr Glu Ser Leu Arg Glu Thr Leu Leu Asp
        195                 200                 205

Ser Arg Val Met Glu Leu Phe Phe Thr Val His Arg Lys Ile Arg Glu
    210                 215                 220

His Ser Asp Met Ala Gln Asp Ser Leu Gln Cys Leu Ala Gln Leu Ala
225                 230                 235                 240
```

```
Ser Leu His Gly Pro Ile Phe Pro Asp Glu Gly Ser Gln Val Asp Tyr
                245                 250                 255

Leu Ala His Phe Ile Glu Gly Leu Leu Asn Thr Ile Asn Gly Ile Glu
            260                 265                 270

Ile Glu Asp Ser Glu Ala Val Gly Ile Ser Ser Ile Ile Ser Asn Leu
        275                 280                 285

Ile Thr Val Phe Pro Arg Asn Val Leu Thr Ala Ile Pro Ser Glu Leu
    290                 295                 300

Phe Ser Ser Phe Val Asn Cys Leu Thr His Leu Thr Cys Ser Phe Gly
305                 310                 315                 320

Arg Ser Ala Ala Leu Glu Glu Val Leu Asp Lys Asp Asp Met Val Tyr
                325                 330                 335

Met Glu Ala Tyr Asp Lys Leu Leu Glu Ser Trp Leu Thr Leu Val Gln
            340                 345                 350

Asp Asp Lys His Phe His Lys Gly Phe Phe Thr Gln His Ala Val Gln
        355                 360                 365

Val Phe Asn Ser Tyr Ile Gln Cys His Leu Ala Ala Pro Asp Gly Thr
    370                 375                 380

Arg Asn Leu Thr Ala Asn Gly Val Ala Ser Arg Glu Glu Glu Glu Ile
385                 390                 395                 400

Ser Glu Leu Gln Glu Asp Asp Arg Asp Gln Phe Ser Asp Gln Leu Ala
                405                 410                 415

Ser Val Gly Met Leu Gly Arg Ile Ala Ala Glu His Cys Ile Pro Leu
            420                 425                 430

Leu Thr Ser Leu Leu Glu Glu Arg Val Thr Arg Leu His Gly Gln Leu
        435                 440                 445

Gln Arg His Gln Gln Gln Leu Leu Ala Ser Pro Gly Ser Ser Thr Val
    450                 455                 460

Asp Asn Lys Met Leu Asp Asp Leu Tyr Glu Asp Ile His Trp Leu Ile
465                 470                 475                 480
```

Leu Val Thr Gly Tyr Leu Leu Ala Asp Asp Thr Gln Gly Glu Thr Pro
485 490 495

Leu Ile Pro Pro Glu Ile Met Glu Tyr Ser Ile Lys His Ser Ser Glu
500 505 510

Val Asp Ile Asn Thr Thr Leu Gln Ile Leu Gly Ser Pro Gly Glu Lys
515 520 525

Ala Ser Ser Ile Pro Gly Tyr Asn Arg Thr Asp Ser Val Ile Arg Leu
530 535 540

Leu Ser Ala Ile Leu Arg Val Ser Glu Val Glu Ser Arg Ala Ile Arg
545 550 555 560

Ala Asp Leu Thr His Leu Leu Ser Pro Gln Met Gly Lys Asp Ile Val
565 570 575

Trp Phe Leu Lys Arg Trp Ala Lys Thr Tyr Leu Leu Val Asp Glu Lys
580 585 590

Leu Tyr Asp Gln Ile Ser Leu Pro Phe Ser Thr Ala Phe Gly Ala Asp
595 600 605

Thr Glu Gly Ser Gln Trp Ile Ile Gly Tyr Leu Leu Gln Lys Val Ile
610 615 620

Ser Asn Leu Ser Val Trp Ser Ser Glu Gln Asp Leu Ala Asn Asp Thr
625 630 635 640

Val Gln Leu Leu Val Thr Leu Val Glu Arg Arg Glu Arg Ala Asn Leu
645 650 655

Val Ile Gln Cys Glu Asn Trp Trp Asn Leu Ala Lys Gln Phe Ala Ser
660 665 670

Arg Ser Pro Pro Leu Asn Phe Leu Ser Ser Pro Val Gln Arg Thr Leu
675 680 685

Met Lys Ala Leu Val Leu Gly Gly Phe Ala His Met Asp Thr Glu Thr
690 695 700

Lys Gln Gln Tyr Trp Thr Glu Val Leu Gln Pro Leu Gln Gln Arg Phe

705 710 715 720

Leu Arg Val Ile Asn Gln Glu Asn Phe Gln Gln Met Cys Gln Gln Glu
725 730 735

Glu Val Lys Gln Glu Ile Thr Ala Thr Leu Glu Ala Leu Cys Gly Ile
740 745 750

Ala Glu Ala Thr Gln Ile Asp Asn Val Ala Ile Leu Phe Asn Phe Leu
755 760 765

Met Asp Phe Leu Thr Asn Cys Ile Gly Leu Met Glu Val Tyr Lys Asn
770 775 780

Thr Pro Glu Thr Val Asn Leu Ile Ile Glu Val Phe Val Glu Val Ala
785 790 795 800

His Lys Gln Ile Cys Tyr Leu Gly Glu Ser Lys Ala Met Asn Leu Tyr
805 810 815

Glu Ala Cys Leu Thr Leu Leu Gln Val Tyr Ser Lys Asn Asn Leu Gly
820 825 830

Arg Gln Arg Ile Asp Val Thr Ala Glu Glu Glu Glu Gln Tyr Gln Asp Leu
835 840 845

Leu Leu Ile Met Glu Leu Leu Thr Asn Leu Leu Ser Lys Glu Phe Ile
850 855 860

Asp Phe Ser Asp Thr Asp Glu Val Phe Arg Gly His Glu Pro Gly Gln
865 870 875 880

Ala Ala Asn Arg Ser Val Ser Ala Ala Asp Val Val Leu Tyr Gly Val
885 890 895

Asn Leu Ile Leu Pro Leu Met Ser Gln Asp Leu Leu Lys Phe Pro Thr
900 905 910

Leu Cys Asn Gln Tyr Tyr Lys Leu Ile Thr Phe Ile Cys Glu Ile Phe
915 920 925

Pro Glu Lys Ile Pro Gln Leu Pro Glu Asp Leu Phe Lys Ser Leu Met
930 935 940

```
Tyr Ser Leu Glu Leu Gly Met Thr Ser Met Ser Ser Glu Val Cys Gln
945                 950                 955                 960

Leu Cys Leu Glu Ala Leu Thr Pro Leu Ala Glu Gln Cys Ala Lys Ala
                965                 970                 975

Gln Glu Thr Asp Ser Pro Leu Phe Leu Ala Thr Arg His Phe Leu Lys
            980                 985                 990

Leu Val Phe Asp Met Leu Val Leu  Gln Lys His Asn Thr  Glu Met Thr
        995                 1000                1005

Thr Ala  Ala Gly Glu Ala Phe  Tyr Thr Leu Val Cys  Leu His Gln
    1010                1015                1020

Ala Glu  Tyr Ser Glu Leu Val  Glu Thr Leu Leu Ser  Ser Gln Gln
    1025                1030                1035

Asp Pro  Val Ile Tyr Gln Arg  Leu Ala Asp Ala Phe  Asn Lys Leu
    1040                1045                1050

Thr Ala  Ser Ser Thr Pro Pro  Thr Leu Asp Arg Lys  Gln Lys Met
    1055                1060                1065

Ala Phe  Leu Lys Ser Leu Glu  Glu Phe Met Ala Asn  Val Gly Gly
    1070                1075                1080

Leu Leu  Cys Val Lys
    1085
```

<210> 256
<211> 78
<212> PRT
<213> Homo sapien

<400> 256

```
Met Val Leu Met Thr Ser Ser Gly Gln Pro Ser Cys Pro Gly Ile Met
1               5                   10                  15

Ala Cys Gln His Ser Leu Cys Pro Pro Asn Leu Arg Pro Arg Met Arg
            20                  25                  30

Ser Cys Gln His Asn Ile His Pro Phe Glu Gln Met Glu Ser Gly Thr
        35                  40                  45
```

```
Leu Thr Gln Pro Ser Val Leu Asn Asn Thr Ala Ile Ile Ala Thr Trp
    50                  55                  60

Leu Ser Arg Gln Cys Lys Pro Ser Glu Ser Ala Glu Leu Phe
65                  70                  75
```

<210> 257
<211> 595
<212> PRT
<213> Homo sapien

<400> 257

```
Val Gln Lys Thr Asn Gln Cys Leu Gln Gly Gln Ser Leu Lys Thr Ser
1               5                  10                  15

Leu Thr Leu Lys Val Asp Arg Gly Ser Glu Glu Thr Tyr Arg Pro Glu
            20                  25                  30

Phe Pro Ser Thr Lys Gly Leu Val Arg Ser Leu Ala Glu Gln Phe Gln
        35                  40                  45

Arg Met Gln Gly Val Ser Met Arg Asp Ser Thr Gly Phe Lys Asp Arg
    50                  55                  60

Ser Leu Ser Gly Ser Leu Arg Lys Asn Ser Ser Pro Ser Asp Ser Lys
65                  70                  75                  80

Pro Pro Phe Ser Gln Gly Gln Glu Lys Gly His Trp Pro Trp Ala Lys
                85                  90                  95

Gln Gln Ser Ser Leu Glu Gly Gly Asp Arg Pro Leu Ser Trp Glu Glu
            100                 105                 110

Ser Thr Glu His Ser Ser Leu Ala Leu Asn Ser Gly Leu Pro Asn Gly
        115                 120                 125

Glu Thr Ser Ser Gly Gly Gln Pro Arg Leu Ala Glu Pro Asp Ile Tyr
    130                 135                 140

Gln Glu Lys Leu Ser Gln Val Arg Asp Val Arg Ser Lys Asp Leu Gly
145                 150                 155                 160

Ser Ser Thr Asp Leu Gly Thr Ser Leu Pro Leu Asp Ser Trp Val Asn
                165                 170                 175
```

Ile Thr Arg Phe Cys Asp Ser Gln Leu Lys His Gly Ala Pro Arg Pro
180 185 190

Gly Met Lys Ser Ser Pro His Asp Ser His Thr Cys Val Thr Tyr Pro
195 200 205

Glu Arg Asn His Ile Leu Leu His Pro His Trp Asn Gln Asp Thr Glu
210 215 220

Gln Glu Thr Ser Glu Leu Glu Ser Leu Tyr Gln Ala Ser Leu Gln Ala
225 230 235 240

Ser Gln Ala Gly Cys Ser Gly Trp Gly Gln Gln Asp Thr Ala Trp His
245 250 255

Pro Leu Ser Gln Thr Gly Ser Ala Asp Gly Met Gly Arg Arg Leu His
260 265 270

Ser Ala His Asp Pro Gly Leu Ser Lys Thr Ser Thr Ala Glu Met Glu
275 280 285

His Gly Leu His Glu Ala Arg Thr Val Arg Thr Ser Gln Ala Thr Pro
290 295 300

Cys Arg Gly Leu Ser Arg Glu Cys Gly Glu Asp Glu Gln Tyr Ser Ala
305 310 315 320

Glu Asn Leu Arg Arg Ile Ser Arg Ser Leu Ser Gly Thr Val Val Ser
325 330 335

Glu Arg Glu Glu Ala Pro Val Ser Ser His Ser Phe Asp Ser Ser Asn
340 345 350

Val Arg Lys Pro Leu Glu Thr Gly His Arg Cys Ser Ser Ser Ser Ser
355 360 365

Leu Pro Val Ile His Asp Pro Ser Val Phe Leu Leu Gly Pro Gln Leu
370 375 380

Tyr Leu Pro Gln Pro Gln Phe Leu Ser Pro Asp Val Leu Met Pro Thr
385 390 395 400

Met Ala Gly Glu Pro Asn Arg Leu Pro Gly Thr Ser Arg Ser Val Gln
405 410 415

```
Gln Phe Leu Ala Met Cys Asp Arg Gly Glu Thr Ser Gln Gly Ala Lys
            420                 425                 430

Tyr Thr Gly Arg Thr Leu Asn Tyr Gln Ser Leu Pro His Arg Ser Arg
        435                 440                 445

Thr Asp Asn Ser Trp Ala Pro Trp Ser Glu Thr Asn Gln His Ile Gly
    450                 455                 460

Thr Arg Phe Leu Thr Thr Pro Gly Cys Asn Pro Gln Leu Thr Tyr Thr
465                 470                 475                 480

Ala Thr Leu Pro Glu Arg Ser Lys Gly Leu Gln Val Pro His Thr Gln
                485                 490                 495

Ser Trp Ser Asp Leu Phe His Ser Pro Ser His Pro Pro Ile Val His
            500                 505                 510

Pro Val Tyr Pro Pro Ser Ser Ser Leu His Val Pro Leu Arg Ser Ala
        515                 520                 525

Trp Asn Ser Asp Pro Val Pro Gly Ser Arg Thr Pro Gly Pro Arg Arg
    530                 535                 540

Val Asp Met Pro Pro Asp Asp Asp Trp Arg Gln Ser Ser Tyr Ala Ser
545                 550                 555                 560

His Ser Gly His Arg Arg Thr Val Gly Glu Gly Phe Leu Phe Val Leu
                565                 570                 575

Ser Asp Ala Pro Arg Arg Glu Gln Ile Arg Ala Arg Val Leu Gln His
            580                 585                 590

Ser Gln Trp
        595
```

<210> 258
<211> 55
<212> PRT
<213> Homo sapien

<400> 258

```
Met Thr Val Met Ile Leu Leu Phe Lys Lys Asn Pro Asn Cys Tyr Phe
1               5                   10                  15
```

```
Asp Leu Tyr Asp Leu Thr Leu Asn His Gly Ser Ile Thr Met Met Phe
            20                  25                  30

Lys Thr Leu Ile Asp Ser Thr Cys Phe Lys Asn Ser Gln Ile Pro Ser
        35                  40                  45

Ala Phe Ile Ile Arg Asp Arg
    50                  55
```

<210> 259
<211> 43
<212> PRT
<213> Homo sapien

<400> 259

```
Met Met Leu Thr Met Glu Phe Lys Asn Lys Gln Gln His Phe Val Val
1               5                   10                  15

Ser Thr Gly Val Gly Val Glu Glu Leu Gln Arg His His Gly Asn Lys
            20                  25                  30

Ser Leu Pro Arg Ile Ser Gly Pro Arg Asn Leu
        35                  40
```

<210> 260
<211> 75
<212> PRT
<213> Homo sapien

<400> 260

```
Met Ala Tyr Arg Met Lys Arg Gly Thr Arg Asn Pro Cys Gly Arg Gly
1               5                   10                  15

Leu Asp Leu Lys Gln Cys Pro Leu Trp Leu Leu Leu Pro Trp Leu Thr
            20                  25                  30

Gly Phe Leu Asp His Val His Phe Thr Gly Pro Trp Asp Leu His Leu
        35                  40                  45

Leu Ala Ser Pro Ala Gly Leu Ile Pro Ala Arg Ala Pro Ser Phe Leu
    50                  55                  60

Leu Met Val Phe Arg Trp Pro Asp His Gly Lys
65                  70                  75
```

<210> 261
<211> 218
<212> PRT
<213> Homo sapien

<400> 261

```
Met Ile Asn His Leu Ser Pro His Gln Ala Ala Ala Pro Val Asp Gln
1               5                  10                  15

Thr Pro Arg Thr Leu Ala Thr Met Gly Gln Arg Ala Leu Pro Ser Ser
            20                  25                  30

Leu Ala Leu Leu Ser Arg Pro Leu Ser Pro Pro Pro Ala Ala Cys Ser
        35                  40                  45

Gly Asp Pro Gly Cys Gly Ser Gly Ala Gly Leu Pro Ser Ala Ser Ala
    50                  55                  60

Ala Ala Gly Ile Ala Ser Ser Ala Val Glu Ala Val Cys Gly Asp Ala
65                  70                  75                  80

Ala Pro Ala Cys Leu Leu Arg Thr Pro Leu Arg Gly Leu Leu Lys Pro
                85                  90                  95

Thr Gly Pro Arg Ser Thr Met Glu Cys Pro Pro Ala Leu Ile Val Gln
            100                 105                 110

Pro Pro Ala Gly Gly Met Ala Arg Arg Ala Ala Ser Gln Pro Trp Ala
        115                 120                 125

Ala Ala Ser Ala Thr Pro Met Leu Ser Ser Lys Ala Ser Leu Cys Ile
    130                 135                 140

Pro Thr Glu Arg Pro Pro Pro Gln Pro Leu Met Arg Thr Pro Ala Ala
145                 150                 155                 160

Arg Ser His Trp Pro Ile Pro His Pro Ala Ser Thr Ala Cys Pro Ala
                165                 170                 175

Pro Leu Pro Val Val Leu Val Ala Pro Arg Ser Thr Ile Leu Ser Met
            180                 185                 190

Ser Arg Thr Trp Thr Cys Arg Arg Trp Ala Val Ala Pro Cys Arg Ala
        195                 200                 205
```

Glu Lys Leu Met Cys Ser Ser Ser Arg Ser
210 215

<210> 262
<211> 104
<212> PRT
<213> Homo sapien

<400> 262

Met Pro Ser Phe Phe Cys Phe Ser Ile Ser Leu Ile Arg Asp Trp Lys
1 5 10 15

Val Ser Ile Arg Ser Asn Thr Asp Phe Ile Val Ile Gly Thr Asn Cys
20 25 30

Ser Pro Thr Thr Pro Tyr Ser Ala Ser Ser Ile Thr Leu Leu Cys Glu
35 40 45

Ile Leu Arg Asn Gly Leu Pro Leu Gln Gly Leu Asn Leu Pro Tyr Leu
50 55 60

Arg Phe Glu Ser Ser Val Leu Phe Cys Ile Cys Phe Lys Tyr Leu Gly
65 70 75 80

Ser Val Thr His Ala Asn Met Thr Cys Pro Val Gln Ala Thr Leu Gly
85 90 95

Ile His Ile Ser His Val Ser Ser
100

<210> 263
<211> 260
<212> PRT
<213> Homo sapien

<400> 263

Glu Lys Lys Lys Lys Met Lys Asn Glu Asn Ala Asp Lys Leu Leu Lys
1 5 10 15

Ser Glu Lys Gln Met Lys Lys Ser Glu Lys Lys Ser Lys Gln Glu Lys
20 25 30

Glu Lys Ser Lys Lys Lys Lys Gly Gly Lys Thr Glu Gln Asp Gly Tyr
35 40 45

Gln Lys Pro Thr Asn Lys His Phe Thr Gln Ser Pro Lys Lys Ser Val

50 55 60

Ala Asp Leu Leu Gly Ser Phe Glu Gly Lys Arg Arg Leu Leu Leu Ile
65 70 75 80

Thr Ala Pro Lys Ala Glu Asn Asn Met Tyr Val Gln Gln Arg Asp Glu
85 90 95

Tyr Leu Glu Ser Phe Cys Lys Met Ala Thr Arg Lys Ile Ser Val Ile
100 105 110

Thr Ile Phe Gly Pro Val Asn Asn Ser Thr Met Lys Ile Asp His Phe
115 120 125

Gln Leu Asp Asn Glu Lys Pro Met Arg Val Val Asp Asp Glu Asp Leu
130 135 140

Val Asp Gln Arg Leu Ile Ser Glu Leu Arg Lys Glu Tyr Gly Met Thr
145 150 155 160

Tyr Asn Asp Phe Phe Met Val Leu Thr Asp Val Asp Leu Arg Val Lys
165 170 175

Gln Tyr Tyr Glu Val Pro Ile Thr Met Lys Ser Val Phe Asp Leu Ile
180 185 190

Asp Thr Phe Gln Ser Arg Ile Lys Asp Met Glu Lys Gln Lys Lys Glu
195 200 205

Gly Ile Val Cys Lys Glu Asp Lys Lys Gln Ser Leu Glu Asn Phe Leu
210 215 220

Ser Arg Phe Arg Trp Arg Arg Arg Leu Leu Val Ile Ser Ala Pro Asn
225 230 235 240

Asp Glu Asp Trp Ala Tyr Ser Gln Gln Leu Ser Ala Leu Ser Gly Gln
245 250 255

Ala Cys Thr Leu
260

<210> 264
<211> 62
<212> PRT
<213> Homo sapien

<400> 264

Met Ser Gly Phe Ile Tyr Val Leu Glu Lys Asp His Leu Lys Lys Ile
1 5 10 15

Asn Thr Phe Ser Thr Thr Lys Lys Lys Lys Lys Lys Lys Lys Lys
20 25 30

Arg Arg Gly Gly Glu Pro Gly Ala Gln Ser Gly Pro Arg Gly Ala Asn
35 40 45

Trp Val Leu Pro Ala His Ile Pro Pro Lys Tyr Trp His Thr
50 55 60

<210> 265
<211> 89
<212> PRT
<213> Homo sapien

<400> 265

Met Leu Gln Leu Asn Thr Arg Phe Tyr Phe Leu Ser Asn Cys Gly Phe
1 5 10 15

Val Phe Ile Tyr His Pro Leu Phe Ile Pro Phe Leu Thr His Thr Leu
20 25 30

Cys Arg Ala Ser Gly Ile Tyr Tyr Ser Thr Val Cys Leu Cys Lys Arg
35 40 45

Leu Ser Val Leu Ala Ser Thr Tyr Glu Arg Met His Ala Lys Phe Cys
50 55 60

Leu Ser Met Pro Gly Leu Ile Ser Leu Lys Gln Asn Asp Leu Arg Val
65 70 75 80

Pro Ser Met Leu Phe Ile Leu Pro Asn
85

<210> 266
<211> 38
<212> PRT
<213> Homo sapien

<400> 266

Met Thr Ser Arg Trp Leu Asn Phe Ser Cys Leu Trp Cys Phe Gly Pro
1 5 10 15

Asn Ser Thr Gly Gln His His Asp His Met Glu Thr Tyr Phe Trp Lys
20 25 30

Gln Asn Phe Asn Phe Ile
35

<210> 267
<211> 111
<212> PRT
<213> Homo sapien

<400> 267

Asn Asp Leu Asp Arg Tyr Asn Pro Leu Ser Ser Gln Arg Leu Val Arg
1 5 10 15

Asn Ala Leu Ala His Val Gly Ala Lys Glu Arg Glu Leu Ser Trp Ala
20 25 30

His Ser Glu Ser Phe Ala Ala Leu Cys Arg Tyr Gly Lys Arg Glu Phe
35 40 45

Lys Ile Gly Gly Glu Leu Arg Ile Gly Lys Gln Pro Tyr Arg Leu Gln
50 55 60

Ile Gln Leu Ser Ala Gln Arg Ser His Thr Leu Glu Phe Gln Ser Leu
65 70 75 80

Glu Asp Leu Ile Met Gly Glu Ala Thr Gln Arg Pro Arg Ser Gly Ala
85 90 95

Arg Pro Val Leu Gln Glu Leu Ala Thr His Leu His Pro Ala Glu
100 105 110

<210> 268
<211> 60
<212> PRT
<213> Homo sapien

<400> 268

Met Val Asn Thr Val Leu Leu Ser Leu Lys Ile Ser Leu Phe Cys Pro
1 5 10 15

His Gln Leu Phe Tyr Cys Ser Val Leu Arg Lys Pro Asn Ser Cys Val
20 25 30

Phe Phe Pro Ser Leu Leu Ile Leu Ser Cys Val Pro Ser Gly Lys Cys
35 40 45

His Tyr Phe Leu Asp Ile Leu Asn Leu Leu Phe Leu
50 55 60

<210> 269
<211> 72
<212> PRT
<213> Homo sapien

<400> 269

Met Cys Leu Cys Ile Leu Val Ser Lys Leu Arg Thr Ser Asp Glu Leu
1 5 10 15

Pro Val Val Pro Ser Tyr Cys Arg Arg Leu Glu Val Arg Gly Ile Ser
20 25 30

Ala Ser Thr Arg Glu Ala Glu Val Ala Ser Glu Pro Thr Ile Met Thr
35 40 45

Ala Cys Thr Pro Ser Leu Ala Thr Val Arg Glu Leu Leu Ser Gln Ile
50 55 60

Lys Arg Lys Gln Ser Leu Leu Ser
65 70

<210> 270
<211> 152
<212> PRT
<213> Homo sapien

<400> 270

Gly Ser Leu Gly Gly Glu Pro Gly Val Ser Cys Leu Lys Met His Ser
1 5 10 15

Asp Ala Ala Ala Val Asn Phe Gln Leu Asn Ser His Leu Ser Thr Leu
20 25 30

Ala Asn Ile His Lys Ile Tyr His Thr Leu Asn Lys Leu Asn Leu Thr
35 40 45

Glu Asp Ile Gly Gln Asp Asp His Gln Thr Gly Ser Leu Arg Ser Cys
50 55 60

Ser Ser Ser Asp Cys Phe Asn Lys Val Met Pro Pro Arg Lys Lys Arg
65 70 75 80

Arg Pro Ala Ser Gly Asp Asp Leu Ser Ala Lys Lys Ser Arg His Asp
85 90 95

Ser Met Tyr Arg Lys Tyr Asp Ser Thr Arg Ile Lys Thr Glu Glu Glu
100 105 110

Ala Phe Ser Ser Lys Arg Cys Leu Glu Trp Phe Tyr Glu Tyr Ala Gly
115 120 125

Thr Asp Asp Val Val Gly Pro Glu Gly Met Glu Lys Phe Cys Glu Asp
130 135 140

Ile Gly Val Glu Pro Glu Asn Val
145 150

<210> 271
<211> 52
<212> PRT
<213> Homo sapien

<400> 271

Met Glu Pro His Ile Met Lys Phe Asn Ser His Val Lys Thr Phe Cys
1 5 10 15

Ile Val Gly Cys Gln Lys Tyr Leu Pro Lys Leu Ser Phe Asp Leu Ser
20 25 30

Glu Trp Gly Trp Leu Leu Pro Ile Leu Gln Phe Val Ser Gln Ala Trp
35 40 45

Arg Asn Gln Ala
50

<210> 272
<211> 449
<212> PRT
<213> Homo sapien

<400> 272

Met Val Met Glu Lys Pro Ser Pro Leu Leu Val Gly Arg Glu Phe Val
1 5 10 15

Arg Gln Tyr Tyr Thr Leu Leu Asn Lys Ala Pro Glu Tyr Leu His Arg

```
                20                  25                  30

Phe Tyr Gly Arg Asn Ser Ser Tyr Val His Gly Gly Val Asp Ala Ser
        35                  40                  45

Gly Lys Pro Gln Glu Ala Val Tyr Gly Gln Asn Asp Ile His His Lys
    50                  55                  60

Val Leu Ser Leu Asn Phe Ser Glu Cys His Thr Lys Ile Arg His Val
65                  70                  75                  80

Asp Ala His Ala Thr Leu Ser Asp Gly Val Val Val Gln Val Met Gly
                85                  90                  95

Leu Leu Ser Asn Ser Gly Gln Pro Glu Arg Lys Phe Met Gln Thr Phe
            100                 105                 110

Val Leu Ala Pro Glu Gly Ser Val Pro Asn Lys Phe Tyr Val His Asn
        115                 120                 125

Asp Met Phe Arg Tyr Glu Asp Glu Val Phe Gly Asp Ser Glu Pro Glu
    130                 135                 140

Leu Asp Glu Glu Ser Glu Asp Glu Val Glu Glu Glu Gln Glu Glu Arg
145                 150                 155                 160

Gln Pro Ser Pro Glu Pro Val Gln Glu Asn Ala Asn Ser Gly Tyr Tyr
                165                 170                 175

Glu Ala His Pro Val Thr Asn Gly Ile Glu Glu Pro Leu Glu Glu Ser
            180                 185                 190

Ser His Glu Pro Glu Pro Glu Pro Glu Ser Glu Thr Lys Thr Glu Glu
        195                 200                 205

Leu Lys Pro Gln Val Glu Glu Lys Asn Leu Glu Glu Leu Glu Glu Lys
    210                 215                 220

Ser Thr Thr Pro Pro Pro Ala Glu Pro Val Ser Leu Pro Gln Glu Pro
225                 230                 235                 240

Pro Lys Pro Arg Val Glu Ala Lys Pro Glu Val Gln Ser Gln Pro Pro
                245                 250                 255
```

Arg Val Arg Glu Gln Arg Pro Arg Glu Arg Pro Gly Phe Pro Pro Arg
260 265 270

Gly Pro Arg Pro Gly Arg Gly Asp Met Glu Gln Asn Asp Ser Asp Asn
275 280 285

Arg Arg Ile Ile Arg Tyr Pro Asp Ser His Gln Leu Phe Val Gly Asn
290 295 300

Leu Pro His Asp Ile Asp Glu Asn Glu Leu Lys Glu Phe Phe Met Ser
305 310 315 320

Phe Gly Asn Val Val Glu Leu Arg Ile Asn Thr Lys Gly Val Gly Gly
325 330 335

Lys Leu Pro Asn Phe Gly Phe Val Val Phe Asp Asp Ser Glu Pro Val
340 345 350

Gln Arg Ile Leu Ile Ala Lys Pro Ile Met Phe Arg Gly Glu Val Arg
355 360 365

Leu Asn Val Glu Glu Lys Lys Thr Arg Ala Ala Arg Glu Arg Glu Thr
370 375 380

Arg Gly Gly Gly Asp Asp Arg Arg Asp Ile Arg Arg Asn Asp Arg Gly
385 390 395 400

Pro Gly Gly Pro Arg Gly Ile Val Gly Gly Gly Met Met Arg Asp Arg
405 410 415

Asp Gly Arg Gly Pro Pro Pro Arg Gly Gly Met Ala Gln Lys Leu Gly
420 425 430

Ser Gly Arg Gly Thr Gly Gln Met Glu Gly Arg Phe Thr Gly Gln Arg
435 440 445

Arg

<210> 273
<211> 63
<212> PRT
<213> Homo sapien

<400> 273

```
Met Cys Cys Asp Val Ser Glu Arg Ala Glu Phe Arg Leu Val Ser Ala
1               5                  10                  15

Arg Cys Ser Phe Ser His Pro Arg Thr Val Ala Arg Leu Leu Leu Arg
            20                  25                  30

His Pro Gly Gln Leu Pro Leu Pro Phe Gln Trp Gly Leu Thr Trp Leu
        35                  40                  45

Pro Ser Leu Ala Ala Asn Arg Arg Ala Pro Gln His Ser Arg Ser
    50                  55                  60
```

<210> 274
<211> 60
<212> PRT
<213> Homo sapien

<400> 274

```
Met Asp Pro Gly Arg Tyr Cys Leu Val Leu Gln Glu Leu Met Gln Phe
1               5                  10                  15

His Ser Glu Ala Cys Lys Ile Leu Asn Phe Arg Asp Asn Arg Pro Asp
            20                  25                  30

Thr Phe Leu Ile Ser Phe Tyr Ser Leu Met Ser Asn Asn Thr Ile Phe
        35                  40                  45

Lys Asn Met Val Leu Ile Cys Leu Ala Ser Asn Leu
    50                  55                  60
```

<210> 275
<211> 111
<212> PRT
<213> Homo sapien

<400> 275

```
Lys Leu Ile Val Tyr Pro Pro Pro Pro Ala Lys Gly Gly Ile Ser Val
1               5                  10                  15

Thr Asn Glu Asp Leu His Cys Leu Asn Glu Gly Glu Phe Leu Asn Asp
            20                  25                  30

Val Ile Ile Asp Phe Tyr Leu Lys Tyr Leu Val Leu Glu Lys Leu Lys
        35                  40                  45

Lys Glu Asp Ala Asp Arg Ile His Ile Phe Ser Ser Phe Phe Tyr Lys
```

50 55 60

Arg Leu Asn Gln Arg Glu Arg Arg Asn His Glu Thr Thr Asn Leu Ser
65 70 75 80

Ile Gln Gln Lys Arg His Gly Arg Val Lys Thr Trp Thr Arg His Val
85 90 95

Asp Ile Phe Glu Lys Asp Phe Ile Phe Val Pro Leu Asn Glu Ala
100 105 110

<210> 276
<211> 97
<212> PRT
<213> Homo sapien

<400> 276

Met Ser Gln Asp Thr Ser Arg Ser Gln Glu Arg Ala Ala Gly Pro Gln
1 5 10 15

Arg Thr Arg Arg Arg Pro Arg Thr Trp Ser Gly Gly Val Glu Pro Thr
20 25 30

Ala Ala Ala Pro Trp Ala Ala Ala Met Ala His Thr Gly Arg His Gly
35 40 45

Ser Gly Ala Ala Ala Thr Ala Ser Ser Thr Arg Gly Asp Gly Ala Ala
50 55 60

Arg Arg Gly Ala Ala Arg Gly Thr Asp Ala Ala Glu Arg Arg Arg Ala
65 70 75 80

Ala Ser Arg Gly Ala Ala Glu Pro Lys Ala Thr Ala Ser Gly Gly Gly
85 90 95

Gly

<210> 277
<211> 76
<212> PRT
<213> Homo sapien

<400> 277

Met Gly Ser Cys Pro Leu Trp Val Arg Ser Ser Thr Cys Arg Val Glu
1 5 10 15

Val Gly Tyr Val His Thr Phe Asn Asp Asn Leu His Ile Ser Ala Pro
20 25 30

Thr Gly Pro Lys Leu Phe Leu Gly Phe Lys Val Val Val Cys Leu Phe
35 40 45

Phe Ser Phe Phe Phe Phe Phe Phe Phe Phe Gly Glu Val Glu Phe Gly
50 55 60

Ser Gly Trp Pro Arg Cys Gly Val Cys Lys Gly Arg
65 70 75

<210> 278
<211> 20
<212> PRT
<213> Homo sapien

<400> 278

Met Glu Asp Gln Ile Ile Leu Asn Tyr Ile Ser Ile Val Pro Gly Lys
1 5 10 15

Thr Gln Val Leu
20

<210> 279
<211> 24
<212> PRT
<213> Homo sapien

<400> 279

Met Val His Leu Met His Ala Arg Ala Arg Ala Ser Cys Asp Gly Cys
1 5 10 15

Val Val Ala Ala Glu Val His Val
20

<210> 280
<211> 101
<212> PRT
<213> Homo sapien

<400> 280

Leu Phe Phe Phe Lys Lys Phe Ile Leu Arg Trp Ser Leu Thr Leu Ser
1 5 10 15

Leu Arg Leu Glu Cys Ser Asp Ser Ile Ser Ala His Cys Asn Leu Arg
20 25 30

Leu Pro Gly Leu Ser Asn Phe Cys Ala Ser Ala Ser Gln Val Ser Glu
35 40 45

Ile Thr Gly Val Cys His His Thr Gln Leu Phe Phe Ile Phe Tyr Phe
50 55 60

Ala Ala Lys Met Gly Phe Arg His Val Gly Arg Thr Gly Leu Glu Leu
65 70 75 80

Leu Ala Ser Ser Gly Pro Pro Thr Ser Ala Ser Gln Ser Ala Gly Ile
85 90 95

Thr Gly Val Ser His
100

<210> 281
<211> 43
<212> PRT
<213> Homo sapien

<400> 281

Met Trp Gly His Gly Leu Asp Asp Gly Leu His Arg Ser Phe His Leu
1 5 10 15

Cys Glu Ser Lys Ser Gly Gln Ser Ala Arg Thr Gln Ser Leu Thr Leu
20 25 30

Gly Gln Leu Leu Arg Thr Asn Pro Gln His Leu
35 40

<210> 282
<211> 46
<212> PRT
<213> Homo sapien

<400> 282

Met Ala Gly Asn Ile His Pro Gly Thr Phe Gly Pro Gly Ser Pro His
1 5 10 15

Leu Phe Phe Leu Cys Gly Val Val Ala Phe Phe Leu Phe Ile Val Ala
20 25 30

Arg Glu Ala Lys Ile Tyr Ser Phe Ser Met Asn Pro Asn Met

35 40 45

<210> 283
<211> 70
<212> PRT
<213> Homo sapien

<400> 283

Met Pro Gly Ser His Leu Cys Met Phe Asn Thr Val Thr His Asp Val
1 5 10 15

Ile Thr Glu Trp Arg Arg Trp Lys Gly Pro Cys Arg Ser Phe Ser Trp
20 25 30

His Pro Asn Phe Thr Glu Gly Glu Leu Arg Pro Glu Leu Arg Asp Val
35 40 45

Leu Arg Ile Pro Glu Ser His Ser Ser Val Arg Ser Val Ile His Lys
50 55 60

Glu Val Ile Ile Lys Val
65 70

<210> 284
<211> 49
<212> PRT
<213> Homo sapien

<400> 284

Met Ser Ser Ser Leu Phe Ala Phe Leu Leu Thr Tyr Phe Val Val Phe
1 5 10 15

Lys Asp Cys Ala Gly Asp Ile Leu Glu Gly Ile Asn Gly Leu His Ser
20 25 30

Lys Arg Cys Gly Leu Ser Lys Leu Phe Ser Val Phe Ile Thr Glu Thr
35 40 45

Asp

<210> 285
<211> 1544
<212> PRT
<213> Homo sapien

<400> 285

```
Met Tyr Ala Ala Val Glu His Gly Pro Val Leu Cys Ser Asp Ser Asn
1               5                  10                  15

Ile Leu Cys Leu Ser Trp Lys Gly Arg Val Pro Lys Ser Glu Lys Glu
            20                  25                  30

Lys Pro Val Cys Arg Arg Arg Tyr Tyr Glu Glu Gly Trp Leu Ala Thr
        35                  40                  45

Gly Asn Gly Arg Gly Val Val Gly Val Thr Phe Thr Ser Ser His Cys
    50                  55                  60

Arg Arg Asp Arg Ser Thr Pro Gln Arg Ile Asn Phe Asn Leu Arg Gly
65                  70                  75                  80

His Asn Ser Glu Val Val Leu Val Arg Trp Asn Glu Pro Tyr Gln Lys
                85                  90                  95

Leu Ala Thr Cys Asp Ala Asp Gly Gly Ile Phe Val Trp Ile Gln Tyr
            100                 105                 110

Glu Gly Arg Trp Ser Val Glu Leu Val Asn Asp Arg Gly Ala Gln Val
        115                 120                 125

Ser Asp Phe Thr Trp Ser His Asp Gly Thr Gln Ala Leu Ile Ser Tyr
    130                 135                 140

Arg Asp Gly Phe Val Leu Val Gly Ser Val Ser Gly Gln Arg His Trp
145                 150                 155                 160

Ser Ser Glu Ile Asn Leu Glu Ser Gln Ile Thr Cys Gly Ile Trp Thr
                165                 170                 175

Pro Asp Asp Gln Gln Val Leu Phe Gly Thr Ala Asp Gly Gln Val Ile
            180                 185                 190

Val Met Asp Cys His Gly Arg Met Leu Ala His Val Leu Leu His Glu
        195                 200                 205

Ser Asp Gly Val Leu Gly Met Ser Trp Asn Tyr Pro Ile Phe Leu Val
    210                 215                 220

Glu Asp Ser Ser Glu Ser Asp Thr Asp Ser Asp Asp Tyr Ala Pro Pro
225                 230                 235                 240
```

Gln Asp Gly Pro Ala Ala Tyr Pro Ile Pro Val Gln Asn Ile Lys Pro
245 250 255

Leu Leu Thr Val Ser Phe Thr Ser Gly Asp Ile Ser Leu Met Asn Asn
260 265 270

Tyr Asp Asp Leu Ser Pro Thr Val Ile Arg Ser Gly Leu Lys Glu Val
275 280 285

Val Ala Gln Trp Cys Thr Gln Gly Asp Leu Leu Ala Val Ala Gly Met
290 295 300

Glu Arg Gln Thr Gln Leu Gly Glu Leu Pro Asn Gly Pro Leu Leu Lys
305 310 315 320

Ser Ala Met Val Lys Phe Tyr Asn Val Arg Gly Glu His Ile Phe Thr
325 330 335

Leu Asp Thr Leu Val Gln Arg Pro Ile Ile Ser Ile Cys Trp Gly His
340 345 350

Arg Asp Ser Arg Leu Leu Met Ala Ser Gly Pro Ala Leu Tyr Val Val
355 360 365

Arg Val Glu His Arg Val Ser Ser Leu Gln Leu Leu Cys Gln Gln Ala
370 375 380

Ile Ala Ser Thr Leu Arg Glu Asp Lys Asp Val Ser Lys Leu Thr Leu
385 390 395 400

Pro Pro Arg Leu Cys Ser Tyr Leu Ser Thr Ala Phe Ile Pro Thr Ile
405 410 415

Lys Pro Pro Ile Pro Asp Pro Asn Asn Met Arg Asp Phe Val Ser Tyr
420 425 430

Pro Ser Ala Gly Asn Glu Arg Leu His Cys Thr Met Lys Arg Thr Glu
435 440 445

Asp Asp Pro Glu Val Gly Gly Pro Cys Tyr Thr Leu Tyr Leu Glu Tyr
450 455 460

Leu Gly Gly Leu Val Pro Ile Leu Lys Gly Arg Arg Ile Ser Lys Leu

```
465                 470                 475                 480

Arg Pro Glu Phe Val Ile Met Asp Pro Arg Thr Asp Ser Lys Pro Asp
                485                 490                 495

Glu Ile Tyr Gly Asn Ser Leu Ile Ser Thr Val Ile Asp Ser Cys Asn
            500                 505                 510

Cys Ser Asp Ser Ser Asp Ile Glu Leu Ser Asp Asp Trp Ala Ala Lys
        515                 520                 525

Lys Ser Pro Lys Ile Ser Arg Ala Ser Lys Ser Pro Lys Leu Pro Arg
    530                 535                 540

Ile Ser Ile Glu Ala Arg Lys Ser Pro Lys Leu Pro Arg Ala Ala Gln
545                 550                 555                 560

Glu Leu Ser Arg Ser Pro Arg Leu Pro Leu Arg Lys Pro Ser Val Gly
                565                 570                 575

Ser Pro Ser Leu Thr Arg Arg Glu Phe Pro Phe Glu Asp Ile Thr Gln
            580                 585                 590

His Asn Tyr Leu Ala Gln Val Thr Ser Asn Ile Trp Gly Thr Lys Phe
        595                 600                 605

Lys Ile Val Gly Leu Ala Ala Phe Leu Pro Thr Asn Leu Gly Ala Val
    610                 615                 620

Ile Tyr Lys Thr Ser Leu Leu His Leu Gln Pro Arg Gln Met Thr Ile
625                 630                 635                 640

Tyr Leu Pro Glu Val Arg Lys Ile Ser Met Asp Tyr Ile Asn Leu Pro
                645                 650                 655

Val Phe Asn Pro Asn Val Phe Ser Glu Asp Glu Asp Asp Leu Pro Val
            660                 665                 670

Thr Gly Ala Ser Gly Val Pro Glu Asn Ser Pro Pro Cys Thr Val Asn
        675                 680                 685

Ile Pro Ile Ala Pro Ile His Ser Ser Ala Gln Ala Met Ser Pro Thr
    690                 695                 700
```

Gln Ser Ile Gly Leu Val Gln Ser Leu Leu Ala Asn Gln Asn Val Gln
705 710 715 720

Leu Asp Val Leu Thr Asn Gln Thr Thr Ala Val Gly Thr Ala Glu His
725 730 735

Ala Gly Asp Arg Cys His Pro Val Thr Gln Val Ser Asn Arg Tyr Ser
740 745 750

Asn Pro Gly Gln Val Ile Phe Gly Ser Val Glu Met Gly Arg Ile Ile
755 760 765

Gln Asn Pro Pro Pro Leu Ser Leu Pro Pro Pro Pro Gln Gly Pro Met
770 775 780

Gln Leu Ser Thr Val Gly His Gly Asp Arg Asp His Glu His Leu Gln
785 790 795 800

Lys Ser Ala Lys Ala Leu Arg Pro Thr Pro Gln Leu Ala Ala Glu Gly
805 810 815

Asp Ala Val Val Phe Ser Ala Pro Gln Glu Val Gln Val Thr Lys Ile
820 825 830

Asn Pro Pro Pro Pro Tyr Pro Gly Thr Ile Pro Ala Ala Pro Thr Thr
835 840 845

Ala Ala Pro Pro Pro Pro Leu Pro Pro Pro Gln Pro Pro Val Asp Val
850 855 860

Cys Leu Lys Lys Gly Asp Phe Ser Leu Tyr Pro Thr Ser Val His Tyr
865 870 875 880

Gln Thr Pro Leu Gly Tyr Glu Arg Ile Thr Thr Phe Asp Ser Ser Gly
885 890 895

Asn Val Glu Glu Val Cys Arg Pro Arg Thr Arg Met Leu Cys Ser Gln
900 905 910

Asn Thr Tyr Thr Leu Pro Gly Pro Gly Ser Ser Ala Thr Leu Arg Leu
915 920 925

Thr Ala Thr Glu Lys Lys Val Pro Gln Pro Cys Ser Ser Ala Thr Leu
930 935 940

```
Asn Arg Leu Thr Val Pro Arg Tyr Ser Ile Pro Thr Gly Asp Pro Pro
945                 950                 955                 960

Pro Tyr Pro Glu Ile Ala Ser Gln Leu Ala Gln Gly Arg Gly Ala Ala
                965                 970                 975

Gln Arg Ser Asp Asn Ser Leu Ile His Ala Thr Leu Arg Arg Asn Asn
            980                 985                 990

Arg Glu Ala Thr Leu Lys Met Ala  Gln Leu Ala Asp Ser  Pro Arg Ala
        995                 1000                1005

Pro Leu  Gln Pro Leu Ala Lys  Ser Lys Gly Gly Pro  Gly Gly Val
    1010                1015                1020

Val Thr  Gln Leu Pro Ala Arg  Pro Pro Pro Ala Leu  Tyr Thr Cys
    1025                1030                1035

Ser Gln  Cys Ser Gly Thr Gly  Pro Ser Ser Gln Pro  Gly Ala Ser
    1040                1045                1050

Leu Ala  His Thr Ala Ser Ala  Ser Pro Leu Ala Ser  Gln Ser Ser
    1055                1060                1065

Tyr Ser  Leu Leu Ser Pro Pro  Asp Ser Ala Arg Asp  Arg Thr Asp
    1070                1075                1080

Tyr Val  Asn Ser Ala Phe Thr  Glu Asp Glu Ala Leu  Ser Gln His
    1085                1090                1095

Cys Gln  Leu Glu Lys Pro Leu  Arg His Pro Pro Leu  Pro Glu Ala
    1100                1105                1110

Ala Val  Thr Leu Lys Arg Pro  Pro Pro Tyr Gln Trp  Asp Pro Met
    1115                1120                1125

Leu Gly  Glu Asp Val Trp Val  Pro Gln Glu Arg Thr  Ala Gln Thr
    1130                1135                1140

Ser Gly  Pro Asn Pro Leu Lys  Leu Ser Ser Leu Met  Leu Ser Gln
    1145                1150                1155

Gly Gln  His Leu Asp Val Ser  Arg Leu Pro Phe Ile  Ser Pro Lys
    1160                1165                1170
```

Ser Pro Ala Ser Pro Thr Ala Thr Phe Gln Thr Gly Tyr Gly Met
1175 1180 1185

Gly Val Pro Tyr Pro Gly Ser Tyr Asn Asn Pro Pro Leu Pro Gly
1190 1195 1200

Val Gln Ala Pro Cys Ser Pro Lys Asp Ala Leu Ser Pro Thr Gln
1205 1210 1215

Phe Ala Gln Gln Glu Pro Ala Val Val Leu Gln Pro Leu Tyr Pro
1220 1225 1230

Pro Ser Leu Ser Tyr Cys Thr Leu Pro Pro Met Tyr Pro Gly Ser
1235 1240 1245

Ser Thr Cys Ser Ser Leu Gln Leu Pro Pro Val Ala Leu His Pro
1250 1255 1260

Trp Ser Ser Tyr Ser Ala Cys Pro Pro Met Gln Asn Pro Gln Gly
1265 1270 1275

Thr Leu Pro Pro Lys Pro His Leu Val Val Glu Lys Pro Leu Val
1280 1285 1290

Ser Pro Pro Pro Ala Asp Leu Gln Ser His Leu Gly Thr Glu Val
1295 1300 1305

Met Val Glu Thr Ala Asp Asn Phe Gln Glu Val Leu Ser Leu Thr
1310 1315 1320

Glu Ser Pro Val Pro Gln Arg Thr Glu Lys Phe Gly Lys Lys Asn
1325 1330 1335

Arg Lys Arg Leu Asp Ser Arg Ala Glu Glu Gly Ser Val Gln Ala
1340 1345 1350

Ile Thr Glu Gly Lys Val Lys Lys Glu Ala Arg Thr Leu Ser Asp
1355 1360 1365

Phe Asn Ser Leu Ile Ser Ser Pro His Leu Gly Arg Glu Lys Lys
1370 1375 1380

Lys Val Lys Ser Gln Lys Asp Gln Leu Lys Ser Lys Lys Leu Asn

```
    1385                1390                1395

Lys Thr  Asn Glu Phe Gln Asp  Ser Ser Glu Ser Glu  Pro Glu Leu
    1400                1405                1410

Phe Ile  Ser Gly Asp Glu Leu  Met Asn Gln Ser Gln  Gly Ser Arg
    1415                1420                1425

Lys Gly  Trp Lys Ser Lys Arg  Ser Pro Arg Ala Ala  Gly Glu Leu
    1430                1435                1440

Glu Glu  Ala Lys Cys Arg Arg  Ala Ser Glu Lys Glu  Asp Gly Arg
    1445                1450                1455

Leu Gly  Ser Gln Gly Phe Val  Tyr Val Met Ala Asn  Lys Gln Pro
    1460                1465                1470

Leu Trp  Asn Glu Ala Thr Gln  Val Tyr Gln Leu Asp  Phe Gly Gly
    1475                1480                1485

Arg Val  Thr Gln Glu Ser Ala  Lys Asn Phe Gln Ile  Glu Leu Glu
    1490                1495                1500

Gly Arg  Gln Val Met Gln Phe  Gly Arg Ile Asp Gly  Ser Ala Tyr
    1505                1510                1515

Ile Leu  Asp Phe Gln Tyr Pro  Phe Ser Ala Val Gln  Ala Phe Ala
    1520                1525                1530

Val Ala  Leu Ala Asn Val Thr  Gln Arg Leu Lys
    1535                1540
```

<210> 286
<211> 56
<212> PRT
<213> Homo sapien

<400> 286

```
Met Gly Asn Gly Ala Thr Gln Lys Gln Leu Pro Asn Leu Arg Asn Asn
1               5                  10                  15

Ser Phe Val Val Tyr Phe Leu Val Leu Val Gly Ala Leu Tyr Arg Asp
            20                  25                  30

Thr Ala Ile Phe Leu Ala Gln Met Ser Leu Leu Glu Ser Thr Val Val
```

35 40 45

Ile Leu Leu Val Arg Leu Arg Thr
50 55

<210> 287
<211> 77
<212> PRT
<213> Homo sapien

<400> 287

Met Leu Leu Ala Val Arg Thr Thr Val Ile Cys Leu Gln Ser Cys Cys
1 5 10 15

Cys Arg Ile Gln Arg Thr Ala Thr Ile Thr Leu Asn Cys Phe Ala Leu
20 25 30

Ser Ser Ile Phe Asp Tyr Tyr Ile Ser His Asn Ile Thr Ile Ser His
35 40 45

Ser Ser Asn Tyr Ser Ala Gln Ile His Glu His Val Pro Ala Arg Ala
50 55 60

Ala Ala Arg Ser Ile Thr Trp Arg Arg Ser Ala Cys Ile
65 70 75

<210> 288
<211> 45
<212> PRT
<213> Homo sapien

<400> 288

Met Tyr Leu Gly Gln Leu Gly Asn His Arg Leu Lys Lys Leu Thr Leu
1 5 10 15

Val Ile Thr Arg Val Val Ser Asp Tyr Lys Gln His Ile Ile Asn Pro
20 25 30

Thr Ala Leu Ile Leu Ala Gln Arg Gln Asn Trp Thr Phe
35 40 45

<210> 289
<211> 44
<212> PRT
<213> Homo sapien

<400> 289

Met Lys Ala Leu Leu Cys Phe Leu Phe Tyr Ser Asp His Gln Thr Asp
1 5 10 15

Leu Ala Thr Leu Ile Val Lys Asn Glu Pro His Ser Ser Pro Gly Leu
20 25 30

Gly Leu Trp Arg Glu Met Asn Phe Leu Leu Glu Met
35 40

<210> 290
<211> 50
<212> PRT
<213> Homo sapien

<400> 290

Met Phe Arg Thr Ser Ser Tyr Arg Leu Leu Ile Tyr Lys Val Pro Val
1 5 10 15

Ala Val Thr Pro Thr Arg Lys Thr Trp Asn Cys Lys Gln Ala Gly Val
20 25 30

Thr Ser Val Thr Ser Asp Thr Val Gln Pro Glu Val Arg Phe Leu Phe
35 40 45

Trp Gly
50

<210> 291
<211> 44
<212> PRT
<213> Homo sapien

<400> 291

Met Ser Gln Trp Pro Val Ala Ser Lys Leu Val Gly Lys Glu Lys Thr
1 5 10 15

Phe Leu Phe Lys Gln Arg Lys Gly Phe Gly Glu Lys Thr Gly Ser Gly
20 25 30

Ser Gly Glu Val Phe Val Met Leu Gly Asp Arg Leu
35 40

<210> 292
<211> 61
<212> PRT
<213> Homo sapien

<400> 292

Met Val His Tyr Arg Lys Glu Lys Lys Thr Ser Val Ser Glu Trp Gln
1 5 10 15

Ile Leu Ile Ile Cys Ser Ser His Leu Phe Ser Ser Glu Asn His Ile
20 25 30

Thr Pro Glu Tyr Leu Pro Gly Arg Ile His His Thr Ala Pro Leu Glu
35 40 45

Pro Ala Ser Lys Asp Pro Phe Ala His Ile Val Ile Leu
50 55 60

<210> 293
<211> 112
<212> PRT
<213> Homo sapien

<400> 293

Met Gly Ile Ile Leu Asn Trp Leu Asn Gln Trp Ala Gln Ile Thr Tyr
1 5 10 15

Leu Pro Ser Leu Leu Cys Asp Ser Pro Ala Val Thr His Thr Ile His
20 25 30

Ile Leu Cys Thr Ser Asn Glu Gln Thr Trp Phe Pro Cys Phe Leu Asp
35 40 45

Ile Ser Met Thr Val Ser His Thr Asn Tyr Trp Val Arg Phe Phe Ser
50 55 60

Cys Tyr Arg Pro Thr Ser Cys Cys Leu Cys Val Val Leu Gln Lys Leu
65 70 75 80

Ser Ile Pro Thr Pro Leu Leu Cys His Leu Gln Glu Ser Gly Ile Val
85 90 95

Arg Ser Gln Leu Arg Lys Val Leu Val Pro Leu Thr Gly His Ile Leu
100 105 110

<210> 294
<211> 55
<212> PRT
<213> Homo sapien

<400> 294

Met Arg Phe Ile Phe Ile Cys Lys Pro Arg Gly Leu Ile Ile Leu Ile
1 5 10 15

Leu Tyr Glu Tyr Thr Cys Val Leu Gly Lys Ala Phe Ile Gln Gln Met
20 25 30

Pro Thr Thr Tyr Ser Val Pro Arg Pro Arg His Pro Val Thr Ser Trp
35 40 45

Arg Pro Ala Arg Ala Cys Ile
50 55

<210> 295
<211> 77
<212> PRT
<213> Homo sapien

<400> 295

Met Leu Glu Leu Pro Thr Phe Ser Phe Phe Phe Phe Gly Asp Arg Ala
1 5 10 15

Ser Leu Cys His Pro Gly Trp Ser Ala Gly Ala Ser Ser Leu Thr His
20 25 30

Leu Gln Pro Ser Phe Leu Pro Trp Gly Ala Gly Arg Phe Ser Cys Ala
35 40 45

Leu Gln Pro Pro Ser Leu Ala Gly Ile Tyr Arg Ala Leu Leu Gln Val
50 55 60

Ser His Ile Phe Ser Glu Lys Phe Leu Asn Trp Pro Pro
65 70 75